

Table S1: Seed-derived antioxidant peptides compiled from Scopus and PlantPepDB databases

No.	Peptide	Source	Reported antioxidant activity	Reference
1	AW	Faba bean (<i>Vicia faba</i> , L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • Ferrous ion-chelating activity 	(Samaci et al., 2021)
2	CA	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
3	CR	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
4	EL	Rice (<i>Oriza sativa</i> L. variety Japonica)	Antioxidant	(Daliri et al., 2020)
5	EM	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
6	EW	Hazelnut (<i>Corylus heterophylla</i> Fisch)	<ul style="list-style-type: none"> • Increase viability of HUVEC cells that are treated with Angiotensin II • Increase activity of CAT, T-SOD and GSH-Px • Decrease content of LDH, MDA and ROS 	(Fang et al., 2019)
7	FG	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
8	FL	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
9	FY	Perilla seed (<i>Perilla frutescens</i> L. Britton)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide anion radical scavenging activity • Higher ORAC values than GSH • Show linoleic acid peroxidation inhibition activity • Inhibit lipid peroxidation in rat liver • High concentration of FY induce apoptosis in HepG-2 cells (act as antioxidant and inhibit cancer proliferation) • Increase cell ratios of HepG-2 cells that are exposed to H2O2 	(Yang et al., 2018)
10	GY	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
11	HC	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
12	HH	Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
		Soybean (<i>Glycine max</i>)		(Chen et al., 1996)
13	HL	Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
		Soybean		(Chen et al., 1996)

		(<i>Glycine max</i>)		
14	IN	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
15	IW	Faba bean (<i>Vicia faba</i> , L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • Ferrous ion-chelating activity 	(Samaei et al., 2021)
16	IY	Soybean (<i>Glycine max</i>)	Antioxidant	(García et al., 2013)
		Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)		(Silva-Sánchez et al., 2008)
		<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
17	LH	Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
		Soybean (<i>Glycine max</i>)		(Chen et al., 1996)
18	LW	Faba bean (<i>Vicia faba</i> , L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • Ferrous ion-chelating activity 	(Samaei et al., 2021)
19	LY	Soybean (<i>Glycine max</i>)	Antioxidant	(Beermann et al., 2009)
		Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)		(Silva-Sánchez et al., 2008)
		<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
20	NL	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
21	NW	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
22	PW	Buckwheat (<i>Fagopyrum esculentum</i>)	Antioxidant	(Ma et al., 2010)
23	QL	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
24	QY	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Significantly increase cell viabilities of H₂O₂ treated Chang liver cell • Significantly decrease contents of aspartate aminotransferase (ALT), alanine aminotransferase (AST), MDA • Increase activities of SOD and CAT • Reduce intracellular ROS level 	(Liang et al., 2020)
25	SF	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Significantly increase cell viabilities of H₂O₂ treated Chang liver cell • Significantly decrease contents of aspartate aminotransferase (ALT), 	(Liang et al., 2020)

			alanine aminotransferase (AST), MDA <ul style="list-style-type: none"> • Increase activities of SOD and CAT • Reduce intracellular ROS level 	
26	SP	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
27	VY	Faba bean (<i>Vicia faba</i> , L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • Ferrous ion-chelating activity 	(Samaci et al., 2021)
28	WF	Purple wheat bran (<i>Triticum aestivum</i> L.)	<ul style="list-style-type: none"> • Superoxide anion radical scavenging activity • Trolox equivalent antioxidant capacity 	(Zhao, Zhao and Lu, 2020)
29	YA	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
30	YG	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
31	YK	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
32	YL	Korean perilla (<i>Perilla frutescens</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide anion radical scavenging activity • Higher ORAC values than GSH • Show linoleic acid peroxidation inhibition activity • Inhibit lipid peroxidation in rat liver • Increase cell ratios of HepG-2 cells that are exposed to H₂O₂ 	(Yang et al., 2018)
		Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
33	YS	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
34	YT	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
35	YV	Faba bean (<i>Vicia faba</i> , L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • Ferrous ion-chelating activity 	(Samaci et al., 2021)
36	ADF	Soybean (<i>Glycine max</i>)	Antioxidant	(Yokomizo, Takenaka and Takenaka, 2002)
37	AHH	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
38	AYL	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing ability 	(Ren et al., 2018)
39	CGN	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity 	(Sonklin et al., 2021)

			<ul style="list-style-type: none"> • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	
40	CHC	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
41	CTN	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
42	ERF	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity except • Hydroxyl radical scavenging activity except • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
43	EYW	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
44	GHC	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
45	GSQ	Chinese leek seed (<i>Allium tuberosum</i> Rottler)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Superoxide radical scavenging activity • Reducing power • Inhibition of linoleic acid peroxidation • Increase cell survival rate of LO₂ cells which was treated with H₂O₂ 	(Hong et al., 2014)
46	GYG	Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
		Soybean (<i>Glycine max</i>)		(Yokomizo, Takenaka and Takenaka, 2002)
47	HAL	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
48	HHP	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
49	HLH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
50	HPH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
51	LAF	Mung bean	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
52	LAN	Mung bean	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity except 	(Sonklin et al., 2021)

			<ul style="list-style-type: none"> • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	
53	LHH	Prince-of-Wales feather (<i>Amaranthus hypochondriacus</i>)	Antioxidant	(Silva-Sánchez et al., 2008)
		Soybean (<i>Glycine max</i>)		(Chen et al., 1996)
54	LPC	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
55	LPH	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
56	LPL	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
57	LQL	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
58	MEN	Corn germ	<p>It is identified from F3 fraction of CGMH-5, which has high</p> <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • ORAC values • effectiveness against peroxy radicals • reduction activity of ROS generation in cell which was treated with H₂O₂ • hydroxyl radical scavenging activity 	(S, Zhang et al., 2019)
59	MNN	Corn germ	<p>It is identified from F3 fraction of CGMH-5, which has high</p> <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • ORAC values • effectiveness against peroxy radicals • reduction activity of ROS generation in cell which was treated with H₂O₂ • hydroxyl radical scavenging activity 	(S, Zhang et al., 2019)
60	PFE	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
61	PHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
62	PYY	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
63	QAC	Purple wheat bran (<i>Triticum aestivum</i> L.)	<ul style="list-style-type: none"> • Superoxide anion radical scavenging activity • Trolox equivalent antioxidant capacity 	(Zhao, Zhao and Lu, 2020)
64	RNF	Purple wheat bran (<i>Triticum aestivum</i> L.)	<ul style="list-style-type: none"> • Superoxide anion radical scavenging activity 	(Zhao, Zhao and Lu, 2020)

			<ul style="list-style-type: none"> • Trolox equivalent antioxidant capacity 	
65	RPR	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
66	SDF	Soybean (<i>Glycine max</i>)	Antioxidant	(Yokomizo, Takenaka and Takenaka, 2002)
67	SQK	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
68	SSC	Purple wheat bran (<i>Triticum aestivum</i> L.)	<ul style="list-style-type: none"> • Superoxide anion radical scavenging activity • Trolox equivalent antioxidant capacity 	(Zhao, Zhao and Lu, 2020)
69	VPW	Buckwheat (<i>Fagopyrum esculentum</i>)	Antioxidant	(Ma et al., 2010)
70	WAF	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity 	(Zarei et al., 2014)
71	WPL	Buckwheat (<i>Fagopyrum esculentum</i>)	Antioxidant	(Ma et al., 2010)
72	WSY	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
73	WYT	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
74	YFE	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
75	YGS	Peanut meal (<i>Arachis hypogaea</i> L.)	<ul style="list-style-type: none"> • Higher ORAC value than GSH • Inhibit oxidation of linoleic acid • Enhance cell viability of PC12 cells that are treated with H₂O₂ 	(Zheng et al., 2012)
76	YHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
77	YNI	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
78	YNL	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
79	YPQ	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing ability 	(Ren et al., 2018)
80	YSL	Rice (<i>Oryza sativa</i>)	Antioxidant	(Wang et al., 2017)
81	YTR	<i>Moringa oleifera</i> seed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Liang et al., 2020)
82	AAVL	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
83	ADGF	Hazelnut (<i>Corylus heterophylla</i> Fisch)	<ul style="list-style-type: none"> • Increase viability of HUVEC cells that are treated with Angiotensin II • Increase activity of CAT, T-SOD and GSH-Px • Decrease content of LDH, MDA and ROS 	(Fang et al., 2019)
			<ul style="list-style-type: none"> • ABTS scavenging activity • DPPH scavenging activity 	(Liu et al., 2018)

84	AGGF	Hazelnut (<i>Corylus heterophylla</i> Fisch)	• Increase viability of HUVEC cells that are treated with Angiotensin II	(Fang et al., 2019)
			• ABTS radical scavenging activity • DPPH radical scavenging activity	(Liu et al., 2018)
85	AWFS	Palm Kernel cake	• DPPH radical scavenging activity • Metal chelating activity	(Zarei et al., 2014)
86	CSGD	Mung bean	• DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity	(Sonklin et al., 2021)
87	DHHQ	Rice (<i>Oryza sativa</i>)	Antioxidant	(Wei et al., 2007)
88	EAAY	Feng Dan seed (<i>Paeonia ostia</i>)	• ABTS radical scavenging activity • Hydroxyl radical scavenging activity	(Wang et al., 2019)
89	EFIQ	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
90	EFLQ	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
91	EFQI	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
92	EFQL	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
93	ETTL	Hazelnut (<i>Corylus heterophylla</i> Fisch)	Increase viability of HUVEC cells that are treated with Angiotensin II	(Fang et al., 2019)
			• ABTS scavenging activity • DPPH scavenging activity	(Liu et al., 2018)
94	FEQI	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
95	FEQL	Hemp seed (<i>Cannabis sativa</i> L.)	• DPPH radical scavenging activity • Metal chelation activity	(Girgih et al., 2014)
96	FEYL	Peach seed (<i>Prunus persica</i> (L.) Batsch)	It is identified from the whole Thermolysin extract, and this extract has • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power	(Vásquez-Villanueva, Marina and García, 2016)
97	FLPF	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
98	FLQL	Mung bean	Ferric reducing antioxidant power	(Sonklin et al., 2021)
99	FSAP	Feng Dan seed (<i>Paeonia ostia</i>)	• ABTS radical scavenging activity • Hydroxyl radical scavenging activity	(Wang et al., 2019)
100	FVPH	Chickpea (<i>Cicer arietinum</i>)	Antioxidant	(Torres-Fuentes et al., 2015)
101	GGIF	Palm Kernel cake	• DPPH radical scavenging activity • Metal chelating activity	(Zarei et al., 2014)
102	GIFE	Palm Kernel cake	• DPPH radical scavenging activity • Metal chelating activity	(Zarei et al., 2014)

103	HGDE	Chickpea seeds	<ul style="list-style-type: none"> Reducing power activity DPPH radical scavenging activity Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
104	HHLF	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
105	HHPL	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
106	HLHP	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
107	HLLP	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> ABTS radical scavenging activity hydroxyl radical scavenging activity lipid peroxidation inhibition activity ferrous reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
108	HLPF	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
109	HPHL	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
110	HPLH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
111	KPKL	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica and de Mejía, 2015)
112	LHPH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
113	LLAH	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica and de Mejía, 2015)
114	LLFS	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
115	LLHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
116	LLMQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
117	LLPH	Soybean (<i>Glycine max</i>) Chickpea seeds	Antioxidant <ul style="list-style-type: none"> Reducing power activity DPPH radical scavenging activity Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Chen et al., 1996) (Torres-Fuentes et al., 2015)
118	LLTC	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
119	LPHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
120	LPYY	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
121	LQAE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
122	LTAH	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> ABTS radical scavenging activity hydroxyl radical scavenging activity 	(Vásquez-Villanueva, Marina and García, 2016)

			<ul style="list-style-type: none"> • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	
123	MFIF	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
124	MFLF	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
125	MGGN	Corn germ	<p>It is identified from F3 fraction of CGMH-5, which has high</p> <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • ORAC values • effectiveness against peroxy radicals • reduction activity of ROS generation in cell which was treated with H₂O₂ • hydroxyl radical scavenging activity 	(S, Zhang et al., 2019)
126	MMGW	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
127	PLHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
128	QFAW	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
129	RQPH	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
130	SGAF	Hazelnut (<i>Corylus heterophylla</i> Fisch)	Increase viability of HUVEC cells that are treated with Angiotensin II	(Fang et al., 2019)
			<ul style="list-style-type: none"> • ABTS scavenging activity • DPPH scavenging activity 	(Liu et al., 2018)
131	SVYT	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
132	TKGQ	Chinese chestnut (<i>Castanea mollissima</i> Blume)	ABTS radical scavenging activity	(Feng et al., 2018)
133	TTYT	Soybean (<i>Glycine max</i>)	Antioxidant	(Beermann et al., 2009)
134	VFPW	Buckwheat (<i>Fagopyrum esculentum</i>)	Antioxidant	(Ma et al., 2010)
135	VKMC	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
136	VLTQ	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity 	(Vásquez-Villanueva, Marina and García, 2016)

			<ul style="list-style-type: none"> • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	
137	VLYL	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
138	VLYN	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
139	VSYT	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
140	VVNE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
141	VYTE	Chinese chestnut (<i>Castanea mollissima</i> Blume)	ABTS radical scavenging activity	(Feng et al., 2018)
142	WAFS	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity 	(Zarei et al., 2014)
143	WVYY	Hemp seed (<i>Cannabis sativa</i>)	Antioxidant	(Girgih et al., 2014; Girgih, He and Aluko, 2014)
144	YSVH	Walnut (<i>Juglans Sigillata</i> Dode)	It is identified from D2 and D3. These fractions have high ORAC values in this study.	(Gu et al., 2015)
145	YVGD	<i>Ginkgo biloba</i> seeds	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity 	(Wu et al., 2013)
146	Ac-QWFCT	Pine nut meal (<i>P. koraiensis</i>)	<ul style="list-style-type: none"> • FRAP • DPPH radical scavenging activity • ABTS radical scavenging activity • Reduce dichlorofluorescein (DCF) formation 	(Yang et al., 2017)
147	AFGPE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
148	AIVIL	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)

149	AKTVF	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
150	AWDPE	Hazelnut (<i>Corylus heterophylla</i> Fisch)	<ul style="list-style-type: none"> • ABTS scavenging activity • DPPH scavenging activity 	(Liu et al., 2018)
151	CAAIC	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
152	DDLPR	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
153	DEVPR	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
154	DWDPK	Hazelnut (<i>Corylus heterophylla</i> Fisch)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity 	(Liu et al., 2018)
155	FGSLH	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
156	FVLGL	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
157	FVLPH	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
158	HADAD	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
159	HHPLL	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
160	HKNAM	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
161	IEEAF	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
162	IFVPH	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
163	IPAGM	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
164	IPAGV	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
165	IPSQV	Soybean (<i>Glycine max</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
166	KDHCH	Pine nut	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Improve ROS scavenging or inhibiting ability • Increase CAT and SOD activity 	(Ma et al., 2019)
167	KFFPS	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
168	KGAIG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
169	KGALG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
170	KGIFG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
171	KGLFG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
172	KHFLA	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
173	KKVVC	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
174	KNILE	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
175	KSALH	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
176	KWFCT	Pine nut meal (<i>P. koraiensis</i>)	<ul style="list-style-type: none"> • FRAP • DPPH radical scavenging activity • ABTS radical scavenging activity • Reduce dichlorofluorescein (DCF) formation 	(Yang et al., 2017)
177	LALPA	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
178	LEEAF	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
179	LFSPR	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
180	LHLPS	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity 	(Vásquez-Villanueva, Marina and García, 2016)

			<ul style="list-style-type: none"> • ferric reducing antioxidant power 	
181	LLAQA	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
182	LLDQE	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
183	LLGIL	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity 	(Chunkao et al., 2020)
184	LLLGI	Mung bean	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
185	LLLLG	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity 	(Chunkao et al., 2020)
186	LLNDE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
187	LLPHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
188	LPAGV	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
189	LPHFN	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
190	LYSPH	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
191	LYTPH	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
192	MDGAP	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
193	MGSP	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
194	MMLQK	Chinese chestnut (<i>Castanea mollissima</i> Blume)	ABTS radical scavenging activity	(Feng et al., 2018)
195	NFHPQ	Rice (<i>Oryza sativa</i>)	Antioxidant	(Yan et al., 2015)
196	NGRFY	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Wang et al., 2021)

			<ul style="list-style-type: none"> • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	
197	NLPLL	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
198	NQLDQ	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
199	NRYHE	Chickpea (<i>Cicer arietinum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Cu²⁺ and Fe²⁺ chelating activity • Inhibit oxidation of linoleic acid 	(Zhang et al., 2011)
200	PAIDL	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
201	PMPVR	Semen cassiae (<i>Cassia obtusifolia</i> L.)	ABTS radical scavenging activity	(Chai et al., 2019)
202	PSIPA	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelation activity 	(Girgih et al., 2014)
203	PSLPA	Hemp seed (<i>Cannabis sativa</i>)	Antioxidant	(Girgih et al., 2014)
204	QERHQ	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
205	QFAAD	Mung bean	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Ferric reducing antioxidant power • Metal chelating activity 	(Sonklin et al., 2021)
206	QLPLL	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
207	QREKK	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
208	QTPRY	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
209	QWDRQ	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
210	RDSHQ	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity 	(Torres-Fuentes et al., 2015)

			<ul style="list-style-type: none"> • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	
211	REPKW	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
212	RPSYT	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
213	RWAEK	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica, Chen and Mejía, 2015)
214	SHNPF	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
215	TELAL	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
216	TPAIS	Chinese chestnut (<i>Castanea mollissima</i> Blume)	ABTS radical scavenging activity	(Feng et al., 2018)
217	TPLTR	Wheat bran	It is identified from from <1 kDa protein hydrolysate, which has the highest ORAC values in this study.	(Zou et al., 2020)
218	TSSLP	Pea	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing power activity • ABTS radical scavenging activity 	(Qin et al., 2020)
219	VFAAL	Chinese cherry seed (<i>Prunus pseudocerasus</i> Lindl.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • DPPH radical scavenging activity • Superoxide anion radical scavenging activity • ABTS radical cation scavenging activities 	(Guo et al., 2015)
220	VPHYN	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
221	VVKCG	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
222	YALKG	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
223	YLLLK	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity 	(Zarei et al., 2014)
224	YNLRQ	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
225	YRILE	Soybean (<i>Glycine max</i>)	<ul style="list-style-type: none"> • ABTS^{•+} scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
226	AILHQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
227	ALPDEV	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
228	AMFVPH	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity • ABTS radical scavenging activity. • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
229	ANSLN	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
230	AQIPQQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Suetsuna and Chen, 2002)
231	DVFNPR	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
232	EDVDFR	Fennel seed (<i>Foeniculum vulgare</i>)	No ABTS radical scavenging activity but it can inhibit albumin protein denaturation (which have the possible applications in health-promoting supplement to alleviate aging-related diseases).	(Mohana Dass, Chai and Wong, 2019)
233	EEGGSV	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
234	EGEEEE	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
235	FDGEVK	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
236	FETLPF	Semen cassiae (<i>Cassia obtusifolia</i> L.)	ABTS radical scavenging activity	(Chai et al., 2019)
237	FLQPHQ	Wheat (<i>Triticum aestivum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
238	FPELLI	Chinese cherry seed (<i>Prunus pseudocerasus</i> Lindl.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • DPPH radical scavenging activity • Superoxide anion radical scavenging activity 	(Guo et al., 2015)

			<ul style="list-style-type: none"> • ABTS radical cation scavenging activities 	
239	FVPTQQ	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
240	GKGIFG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
241	HQMPKP	Pea	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing power activity • ABTS radical scavenging activity 	(Qin et al., 2020)
242	IKATSN	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
243	KELEEK	Watermelon seed (<i>Citrullus lanatus</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • High ORAC value • Increase cell viability of H₂O₂-treated HepG2 cell 	(Wen et al., 2020)
244	KGVITQ	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
245	KIIIYN	Coconut cake albumin	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Iron (II) ion chelating activity • Superoxide radical scavenging activity. • Protect EA.hy926 cells against H₂O₂ induced damage 	(Zheng, Li and Li, 2019)
246	KILIYG	Coconut cake albumin	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Iron (II) ion chelating activity • Superoxide radical scavenging activity. • Protect EA.hy926 cells against H₂O₂ induced damage 	(Zheng, Li and Li, 2019)
247	KMRDNL	Semen cassiae (<i>Cassia obtusifolia</i> L.)	ABTS radical scavenging activity	(Chai et al., 2019)
248	KSKVII	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
249	LGTFQN	Foxtail millet (<i>Setaria italica</i>)	Antioxidant	(Amadou et al., 2013)
250	LHALLL	Foxtail millet (<i>Setaria italica</i>)	Antioxidant	(Amadou et al., 2013)
251	LLPHHH	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen et al., 1996)
252	LPHFNS	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity 	(Torres-Fuentes et al., 2015)

			<ul style="list-style-type: none"> • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	
253	LRTLPM	Barley (<i>Hordeum vulgare</i>)	Antioxidant	(Xia et al., 2012)
254	LTPTSN	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(Esteve, Marina and García, 2015)
		Olive seeds (<i>Olea europaea</i>)		(García et al., 2015)
255	LTTLDS	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> • Antioxidant capacity (AC) of ABTS radical scavenging and β-carotene-linoleate bleaching (BCB) increases with increased protein content • AC of Ferric Reducing Antioxidant Power decreases with increase protein content 	(Chang et al., 2015)
256	LYTPHW	Peach seed (<i>Prunus persica</i> (L.) Batsch)	<p>It is identified from the whole Thermolysin extract, and this extract has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
257	MAKSA	Emmer (<i>Triticum dicoccum</i>)	DPPH radical scavenging activity	(Babini et al., 2017)
258	NLGDP	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
259	NLGNE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
260	PCPVA	Wheat (<i>Triticum aestivum</i>)	DPPH scavenging activity	(Babini et al., 2017)
261	PNHPEL	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
262	PPHMLP	Pinto beans (<i>Phaseolus vulgaris</i> cv. Pinto)	<p>It is identified from <3 peptide fraction, which has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP 	(Ngoh and Gan, 2016)
263	PPKIYP	Pea	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing power activity • ABTS radical scavenging activity 	(Qin et al., 2020)
264	PPMHL	Pinto beans (<i>Phaseolus vulgaris</i> cv. Pinto)	<p>It is identified from <3 peptide fraction, which has</p> <ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP 	(Ngoh and Gan, 2016)
265	PVETVR	Feng Dan seed (<i>Paeonia ostia</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Hydroxyl radical scavenging activity 	(Wang et al., 2019)

266	QEPLLR	Feng Dan seed (<i>Paeonia ostia</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Hydroxyl radical scavenging activity 	(Wang et al., 2019)
267	QNGRFY	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
268	QQQPW	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • ABTS radical scavenging activity 	(Wang et al., 2014)
269	QRNNPY	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
270	RDPEER	Watermelon seed (<i>Citrullus lanatus</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • High ORAC value • Increase cell viability of H₂O₂-treated HepG2 cell • Reduce ROS production in dose-dependent way • Increase activity of SOD, GSH-Px, and CAT • Decrease malondialdehyde (MDA) activity 	(Wen et al., 2020)
271	RDPIYS	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
272	RNENEQ	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
273	RNPIYS	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
274	SGYYMH	Foxtail millet (<i>Setaria italica</i>)	Antioxidant	(Amadou et al., 2013)
275	SPYCYG	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica, Chen and Mejía, 2015)
276	SSHWS	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
277	SVNVPL	Barley (<i>Hordeum vulgare</i>)	Antioxidant	(Xia et al., 2012)
278	TGRGAP	Pea	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing power activity • ABTS radical scavenging activity 	(Qin et al., 2020)
279	VEGGLS	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
280	VGPWQK	Jackfruit seed	ABTS radical scavenging activity	(Chai et al., 2021)

		(Artocarpus heterophyllus)		
281	VLLHLK	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
282	VPLSPT	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
283	VPVTST	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> Antioxidant capacity (AC) of ABTS radical scavenging and β-carotene-linoleate bleaching (BCB) increases with increased protein content AC of Ferric Reducing Antioxidant Power decreases with increase protein content 	(Chang et al., 2015)
284	VSAFLA	Chinese chestnut (<i>Castanea mollissima</i> Blume)	ABTS radical scavenging activity	(Feng et al., 2018)
285	VSPHLP	Cottonseed	<ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity hydroxyl radical scavenging activity Fe²⁺ chelating activities 	(Wang et al., 2021)
286	VVVVPH	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
287	WDRGQ	Cottonseed	<ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity Hydroxyl radical scavenging activity Fe²⁺ chelating activities 	(Wang et al., 2021)
288	WNMNAH	Cottonseed	<ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity Hydroxyl radical scavenging activity Fe²⁺ chelating activities 	(Wang et al., 2021)
289	YRILEF	Soybean (<i>Glycine max</i>)	<ul style="list-style-type: none"> ABTS radical scavenging activity Peroxyl radical scavenging capacity Increased NO₂⁻ production Decrease in TBARS levels (lipid peroxidation) Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
290	ADLYNPR	Pea	<ul style="list-style-type: none"> DPPH radical scavenging activity Hydroxyl radical scavenging activity 	(Ding et al., 2020)
291	ADVFNPR	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> ABTS radical-scavenging activity Superoxide radical scavenging activity 	(Zheng, Li and Zhang, 2017)
292	AEHGSLH	Chickpea seeds	<ul style="list-style-type: none"> Reducing power activity DPPH radical scavenging activity Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
293	AEYVRLY	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
294	AILHQQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
295	ALEPDHR	Chickpea (<i>Cicer arietinum</i>)	Antioxidant	(Torres-Fuentes et al., 2015)
296	APGAGVY	Wheat	Antioxidant	(Matsui, Li and Osajima, 1999)

		(<i>Triticum aestivum</i>)		
		Olive seeds (<i>Olea europaea</i>)		(Esteve, Marina and García, 2015)
297	CGFPGHC	Purple wheat bran (<i>Triticum aestivum</i> L.)	<ul style="list-style-type: none"> • Superoxide anion radical scavenging activity • Trolox equivalent antioxidant capacity 	(Zhao, Zhao and Lu, 2020)
298	CSQAPLA	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Superoxide anion radical scavenging activity • Reducing power 	(Jin et al., 2016)
299	DAQEFKR	Kamut	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
300	DFYNPKA	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
301	ESGAVTE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
302	FDAVGVK	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
303	FGPEMEQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
304	FLVPPQE	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
305	FNVPATK	Mung bean (<i>Vigna radiata</i> (L.) Wilczek	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
306	FRDEHKK	Rice (<i>Oryza sativa</i>)	Antioxidant	(Zhang et al., 2010)
307	GANSLLN	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
308	GSIFVPH	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
309	GVGLFVR	Mung bean (<i>Vigna radiata</i> (L.) Wilczek	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
310	HGDPEER	Lentil seeds (<i>Lens culinaris</i> L. var. Castellana)	<ul style="list-style-type: none"> • ORAC • Inhibit ROS generation 	(Bautista-Expósito et al., 2018)
311	HHQDPPW	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe²⁺ chelating activities 	(Wang et al., 2021)
312	HNVAMER	Mung bean (<i>Vigna radiata</i> (L.) Wilczek	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
313	HQNIGSS	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
314	HQTSEFK	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)

315	HVAGTVA	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
316	IILHQQQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
317	IPSEVLA	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
318	IPSEVLS	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
319	KAQYPYV	Coconut cake albumin	<ul style="list-style-type: none"> Hydroxyl radical scavenging activity Iron (II) ion chelating activity Superoxide radical scavenging activity. Protect EA.hy926 cells against H₂O₂ induced damage 	(Zheng, Li and Li, 2019)
320	KNPQLQD	Chickpea seeds	<ul style="list-style-type: none"> Reducing power activity DPPH radical scavenging activity Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
321	LCLAALP	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
322	LDDDGR	Watermelon seed (<i>Citrullus lanatus</i>)	<ul style="list-style-type: none"> ABTS radical scavenging activity DPPH radical scavenging activity High ORAC value Increase cell viability of H₂O₂-treated HepG2 cell 	(Wen et al., 2020)
323	LDESKRF	Semen cassiae (<i>Cassia obtusifolia</i> L.)	ABTS radical scavenging activity	(Chai et al., 2019)
324	LDLVKPQ	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> ABTS radical scavenging activity Fe²⁺-chelating activity •OH scavenging activity Causes dose-dependent increase in viability of H₂O₂-treated HepG2 cells Inhibit ROS generation in H₂O₂-treated HepG2 cells Increase activity of superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GSH-Px) 	(Gao et al., 2021)
325	LLPGANH	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
326	LLPHLRR	Mung bean (<i>Vigna radiata</i> (L.) Wilczek)	<ul style="list-style-type: none"> ABTS radical scavenging activity FRAP Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
327	LPAAHKA	Golden melon seed (<i>Cucurbita pepo</i> L. var. <i>medullosa</i> Alef)	Ferric reducing power activity	(Chen et al., 2021)
328	NQNGRFY	Cottonseed	<ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity hydroxyl radical scavenging activity Fe²⁺ chelating activities 	(Wang et al., 2021)

329	NTGNLLG	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
330	PQIQEQF	Barley (<i>Hordeum vulgare</i>)	Antioxidant	(Xia et al., 2012)
331	RAILTLV	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
332	RPNYTDA	Rice (<i>Oryza sativa</i>)	Antioxidant	(Yan et al., 2015)
333	SAEHGSL	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
334	SGVVPGY	Mung bean (<i>Vigna radiata</i> (L.) Wilczek	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
335	SMRKPPG	Peony seed (<i>Paeonia suffruticosa</i> Andr.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Hydroxyl radical scavenging activity • Fe²⁺ chelating activity • Reducing power activity 	(F, Zhang et al., 2019)
336	SSSSPDI	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
337	TIIPLPV	Soybean (<i>Glycine max</i>)	Antioxidant	(Jiménez-Escrig et al., 2009)
338	VGAPSVS	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
339	VGPLSPT	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
340	VIPAGYP	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
341	VLRPPLS	Feng Dan seed (<i>Paeonia ostia</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Hydroxyl radical scavenging activity 	(Wang et al., 2019)
342	VVALALI	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
343	YGNWLYK	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica, Chen and Mejía, 2015)
344	YGPQQQE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
345	AHAAGYGG	Golden melon seed (<i>Cucurbita pepo</i> L. var. <i>medullosa</i> Alef)	Ferric reducing power activity	(Chen et al., 2021)
346	AILLHQQQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
347	AIRQGDVF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Adebiyi et al., 2008)

348	ALEDVVEK	Fennel seed (<i>Foeniculum vulgare</i>)	No ABTS radical scavenging activity but it can inhibit albumin protein denaturation (which have the possible applications in health-promoting supplement to alleviate aging-related diseases).	(Mohana Dass, Chai and Wong, 2019)
349	AQKIPAGT	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
350	ATAFGLMK	Lentil seeds (<i>Lens culinaris</i> L. var. Castellana)	<ul style="list-style-type: none"> • ORAC • Inhibit ROS generation 	(Bautista-Expósito et al., 2018)
351	AVKPEPAR	Mung bean (<i>Vigna radiata</i> (L.) Wilczek)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
352	CAGVSAIR	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Superoxide radical scavenging activity 	(Zheng, Li and Zhang, 2017)
353	DAAGRLQE	Watermelon seed (<i>Citrullus lanatus</i>)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • DPPH radical scavenging activity • High ORAC value • Increase cell viability of H₂O₂-treated HepG₂ cell 	(Wen et al., 2020; Wen et al., 2021)
354	DGDPLLDQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
355	DLPVLRWL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	<ul style="list-style-type: none"> • Identified from S2 hydrolysate (which has the highest ORAC values) • Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed 	(Garcia-Mora et al., 2015)
356	DNIPIVIR	Whole wheat	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
357	EALEAMFL	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • High hydrophobicity, access hydrophobic radical species 	(Coda et al., 2012)
358	EGGLLLPH	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
359	ESDVVSDL	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH scavenging activity • ABTS scavenging activity • hydroxyl scavenging activity 	(Selamassakul et al., 2020)
360	FPLEMMPF	Maize (<i>Zea mays</i>)	Antioxidant	(Zheng et al., 2006)
361	GHSVIVYVQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
362	GIEEQQR	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
363	GLLLPHYN	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
364	GSGVGGAK	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH scavenging activity • ABTS scavenging activity • Hydroxyl scavenging activity 	(Selamassakul et al., 2020)
365	GTFLQPHQ	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
366	HPVPPKKK	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • His residue acts as metal ion chelator 	(Coda et al., 2012)
367	IIPAGHPV	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
368	ILAGPTTI	Mung bean	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
369	INDKYVLL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
370	ITFAAYRR	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • Show highest activity 	(Coda et al., 2012)
371	KHDRGDEF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Zhang et al., 2010)
372	KHNRGDEF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Zhang et al., 2009)
373	KKGVLGLA	Mung bean	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity • Metal chelating activity • Ferric reducing antioxidant power 	(Chunkao et al., 2020)
374	LAGNHEQE	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
375	LAGNPENE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
376	LAGNPQDE	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
377	LDLPVLRW	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity. • ABTS radical scavenging activity. • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
378	LPQHIDAD	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity 	(Torres-Fuentes et al., 2015)

			<ul style="list-style-type: none"> • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	
379	LPQHTDAD	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
380	LVYIIQGR	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Superoxide radical scavenging activity • Has highest antioxidant activity among the four peptides discovered 	(Zheng, Li and Zhang, 2017)
381	NGDPLLDQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
382	NIEDPYRA	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
383	NSGPLVNP	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
384	PLPLHMLP	Pinto beans (<i>Phaseolus vulgaris</i> cv. Pinto)	Identified from <3 peptide fraction, which has <ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP 	(Ngoh and Gan, 2016)
385	PLPPHMLP	Pinto beans (<i>Phaseolus vulgaris</i> cv. Pinto)	Identified from <3 peptide fraction, which has <ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP 	(Ngoh and Gan, 2016)
386	QQRQQQL	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
387	QTFPHQPQ	Emmer	• DPPH scavenging activity	(Babini et al., 2017)
388	RDRHQKIG	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
389	SAEHGSLH	Chickpea (<i>Cicer arietinum</i>)	Antioxidant	(Torres-Fuentes et al., 2015)
390	TDRHQKLR	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
391	TRTGDPFF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Yan et al., 2015)
392	TSQLLSDQ	Rice (<i>Oryza sativa</i>)	Antioxidant	(Yan et al., 2015)
393	TVFDGELR	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> • Antioxidant capacity (AC) of ABTS radical scavenging and β-carotene-linoleate bleaching (BCB) increases with increased protein content • AC of Ferric Reducing Antioxidant Power decreases with increase protein content 	(Chang et al., 2015)
394	VAITLTMK	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
395	VLPPQQQY	Wheat	Antioxidant	(Babini et al., 2017)

		(<i>Triticum aestivum</i>)		
396	VNDDRDS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
397	VNPHDHQN	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
398	VPPSKLSP	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
399	VSKSVLVK	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
400	VTYDYYKN	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
401	VVGGDGDV	Oil palm kernel (<i>Elaeis guineensis</i> Jacq.)	<ul style="list-style-type: none"> • Antioxidant capacity (AC) of ABTS radical scavenging and β-carotene-linoleate bleaching (BCB) increases with increased protein content. • AC of Ferric Reducing Antioxidant Power decreases with increase protein content 	(Chang et al., 2015)
402	VVRPPFSQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
403	YGRDEISV	Hemp seed (<i>Cannabis sativa</i> L.)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Fe^{2+}-chelating activity • OH^\bullet scavenging activity • Causes dose-dependent increase in viability of H_2O_2-treated HepG2 cells • Inhibit ROS generation in H_2O_2-treated HepG2 cells • Increase activity of superoxide dismutase (SOD), catalase (CAT) and glutathione peroxidase (GSH-Px) 	(Gao et al., 2021)
404	YPKLAPNE	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Superoxide anion radical scavenging activity • Reducing power 	(Jin et al., 2016)
405	YPQLLPNE	Corn gluten	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Superoxide anion radical scavenging activity • Reducing power 	(Jin et al., 2016)
406	YRQYPFQQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
407	YSNQNGRF	Cottonseed	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity • Fe^{2+} chelating activities 	(Wang et al., 2021)
408	YSSPIHIW	Pea	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity 	(Ding et al., 2020)

409	ASHGDFRIL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
410	EFFDVSNEQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
411	ENLQNYRLL	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
412	ESTLHLVLR	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
413	FGSGGGPGG	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Hydroxyl radical scavenging activity 	(Selamassakul et al., 2020)
414	FNQLDDEV	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
415	FPFPRPPHQ	Soybean (<i>Glycine max</i>)	Antioxidant	(Puchalska, Concepción García and Luisa Marina, 2014)
416	HTQHQQFFHG	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
417	HYDSEAILF	Pea protein	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl (OH) radical scavenging activity 	(Ding et al., 2020)
418	LGNTDYAVH	<i>Ginkgo biloba</i> seeds (<i>Ginkgo biloba</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Superoxide radical scavenging activity 	(Wu et al., 2013)
419	LIRHVIQSR	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
420	LLPHHADAD	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
421	LMRVLAQLG	Golden melon seed (<i>Cucurbita pepo</i> L. var. <i>medullosa</i> Alef)	Ferric reducing power activity	(Chen et al., 2021)
422	LQPGQGQQG	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Suetsuna and Chen, 2002)
423	LVNNDDRDS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)

424	LVNPHDHQN	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
425	MNDRVNQGE	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
426	NEDVIVKVS	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
427	NINAHSVVY	Oat bran	Inhibition of linoleic acid peroxidation	(Esfandi et al., 2021)
428	NLDALEPSR	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
429	PSYLNTPLL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
430	SDLDPIRHK	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
431	SDRFTYVAF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
432	SLDLPVLRW	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
433	SPFWNINAH	Oat bran	Inhibition of linoleic acid peroxidation	(Esfandi et al., 2021)
434	SPQLQNLRD	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
435	SSAPGGGRP	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
436	SSVGGGSAG	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Hydroxyl radical scavenging activity 	(Selamassakul et al., 2020)
437	SYPTCEMR	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
438	VLDTGLAGA	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
439	VLEANPRSF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Adebiyi et al., 2008)
440	VLSPPTGE	Olive seeds (<i>Olea europaea</i>)	Antioxidant	(Esteve, Marina and García, 2015)
441	VMTVHNTPY	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
442	YLAGNHEQE	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)

443	AQGTFLQPHQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
444	DLPVLRWLKL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	<ul style="list-style-type: none"> Identified from S2 hydrolysate (which has the highest ORAC values) Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed 	(Garcia-Mora et al., 2015)
445	ENENGHIRLL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
446	ESDLDIRHK	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> DPPH radical scavenging activity Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
447	FEITPEKNPQ	Soybean	<ul style="list-style-type: none"> ABTS radical scavenging activity Peroxyl radical scavenging capacity Increased NO_2^- production Decrease in TBARS levels (lipid peroxidation) Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
448	FGGGGAGAGG	Brown rice	<p>Identified from F4 fraction, which has higher</p> <ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity Hydroxyl radical scavenging activity 	(Selamassakul et al., 2020)
449	GFAGDDAPRA	Watermelon seed (<i>Citrullus lanatus</i>)	<ul style="list-style-type: none"> ABTS radical scavenging activity DPPH radical scavenging activity High ORAC value Increase cell viability of H_2O_2-treated HepG2 cell 	(Wen et al., 2020; Wen et al., 2021)
450	GHDDDRGEIV	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> DPPH scavenging activity ABTS scavenging activity H_2O_2 scavenging activity Reducing power activity 	(Yu et al., 2021)
451	GKGEGGGGLA	Brown rice	<ul style="list-style-type: none"> ABTS radical scavenging activity Cu^{2+} chelating activity 	(Selamassakul et al., 2018)
452	GLLGKNFTSK	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
453	GVSLIRHVIQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> DPPH radical scavenging activity Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
454	HLPSFSPSPQ	Chickpea seeds	<ul style="list-style-type: none"> Reducing power activity DPPH radical scavenging activity Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
455	KQVHPDIGIS	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> DPPH radical scavenging activity Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
456	KTISSDQPF	Soybean	<ul style="list-style-type: none"> ABTS radical scavenging activity Peroxyl radical scavenging capacity Increased NO_2^- production 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
457	LCPVHRAADL	Rye	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • High hydrophobicity, access hydrophobic radical species 	(Coda et al., 2012)
458	LDSCKDYVME	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
459	LFINDKYVLL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
460	LGSFLYGYSR	Mung bean (<i>Vigna radiata</i> (L.) Wilczek)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
461	LLNDEVKEGQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
462	LLPHHADADY	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
463	LPWRPATNVF	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity 	(Zarei et al., 2014)
464	NILEASYNTR	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity • ABTS radical scavenging activity • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
465	QITEGEDGGG	<i>Caragana ambigua</i> seed	<ul style="list-style-type: none"> • Scavenge superoxide anions • Inhibit rate of linoleic acid oxidation • Delay auto-oxidation of walnut oil 	(Jie et al., 2019)
466	QKFPQPPF	Barley (<i>Hordeum vulgare</i>)	Antioxidant	(Xia et al., 2012)
467	QLNEPDNRLQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
468	QLPEPDNRLQ	Cherry (<i>Prunus cerasus</i>)	Antioxidant	(García et al., 2015)
469	RENIDKPSRA	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
470	REQIEELRRL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
471	RLSAEYVRLY	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
472	RQSHFANAQP	Chickpea (<i>Cicer arietinum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Hydroxyl radical scavenging activity • Reducing power • TEAC 	(Kou et al., 2013)
473	RRIEAEAGRL	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
474	RSDQDNPFIF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)

475	RVQVVNNNGK	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
476	SDQENPFIFK	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	<ul style="list-style-type: none"> • ORAC • Inhibit ROS generation 	(Bautista-Expósito et al., 2018)
477	SGHKIPAIGL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
478	SGPSGGGGAL	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Hydroxyl scavenging activity 	(Selamassakul et al., 2020)
479	SLDLPVLRWL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
480	SLPNFHPMPR	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
481	SLVNNDDRDS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
482	SPFWNINAHS	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
483	STTTGHLYK	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
484	TETWNPNHPE	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
485	THPDVPGIPT	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
486	TLVNNDDRDS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
487	TMAEYHHQDQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
488	TSLDLPVLRW	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
489	TSVEITSSK	Sorghum (<i>Sorghum bicolor</i>)	Antioxidant	(Agrawal, Joshi and Gupta, 2017)
490	VEVGGGARAP	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
491	YFDEQNEQFR	Oat bran	Inhibition of linoleic acid peroxidation	(Esfandi et al., 2021)
492	YGIKVGYAIP	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity • High metal chelating activity 	(Zarei et al., 2014)

493	YLESQQSSQQ	Peach seed (<i>Prunus persica</i> (L.) Batsch)	Identified from the whole Thermolysin extract, and this extract has <ul style="list-style-type: none"> • ABTS radical scavenging activity • hydroxyl radical scavenging activity • lipid peroxidation inhibition activity • ferric reducing antioxidant power 	(Vásquez-Villanueva, Marina and García, 2016)
494	YQETSSSSSQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
495	YSEEQQPSTR	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
496	YVVNPDNDEN	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
497	YVVNPDNNEN	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
498	AGGGGGGVVAG	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • hydroxyl radical scavenging activity 	(Selamassakul et al., 2020)
499	DFNQLDDEVN	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
500	DHHQVYSPGEQ	Rice (<i>Oryza sativa</i>)	Antioxidant	(Wei et al., 2007)
501	DMIAVPDGVTH	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
502	EFFDVSNELFQ	Brown rice	<ul style="list-style-type: none"> • ABTS^{•+} scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
503	EHIMPLGQNGR	Chañar seeds (<i>Geoffroea decorticans</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Cotabarren et al., 2021)
504	EPFNLRSRNPI	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)

505	FLGSFLYGYSR	Mung bean (<i>Vigna radiata</i> (L.) Wilczek)	<ul style="list-style-type: none"> • ABTS radical scavenging activity • FRAP • Metal chelating activity 	(Lapsongphon and Yongsawatdigul, 2013)
506	GEQQQQPGMTR	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
507	GGGGGAAAAGA	Brown rice	Identified from F4 fraction, which has higher <ul style="list-style-type: none"> • DPPH scavenging activity • ABTS scavenging activity • hydroxyl scavenging activity 	(Selamassakul et al., 2020)
508	GPIYSNEFGKF	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
509	HIAGKSSIFRA	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
510	HNLDTQTESDV	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
511	ISPRILSYNLR	Perilla seed (<i>Perilla frutescens</i> var. <i>japonica</i> HARA)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • Reducing power 	(Kim, Liceaga and Yoon, 2019)
512	ITLAIPVNKPG	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
513	KPFNLRSRDPI	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
514	KTISSDQPFN	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
515	KVALMSAGSMH	Rye	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
516	LAGNPHQQQQN	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
517	LAQGTFLQPHQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
518	LPENAKVDQVK	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)

519	MEGPSHGVHPL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
520	MPVDVIANAYR	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
521	PAEMVAAALDR	Rye	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • High hydrophobicity, access hydrophobic radical species 	(Coda et al., 2012)
522	PEFEEEQPHRP	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
523	QVVRSDQGSVR	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
524	SILSDEEDERQ	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
525	SRSDQDNPFIF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
526	TETWNPNHPEL	Chickpea (<i>Cicer arietinum</i>)	Antioxidant	(Torres-Fuentes et al., 2015)
527	TSLDLPVLRWL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
528	VEGNLQVLRPR	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
529	VTSLDLPVLRW	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
530	VVYFDQTQAQA	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
531	WSVWEQELED	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
532	YNILSGFDTEL	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
533	YQETSSSSSQE	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
534	AAAAAGGGELEG	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
535	AGEQGFYVTFR	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
536	AGNDGFEYVTLK	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
537	AKIDWKETPQAH	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)

538	ALEPTHQIEAEA	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
539	AQQQEQAQQQE	Brown rice	<ul style="list-style-type: none"> • ABTS^{•+} scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
540	EQEEEEESTGRMK	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H₂O₂ • Reduce intracellular ROS 	(Sheng et al., 2019)
541	FAFGINAENNQR	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
542	FEITPEKNPQLR	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
543	GGVPRSGEQEQ	Sesame seed (<i>Sesamum indicum</i> L.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Lu et al., 2019)
544	GLHLPSFSPSPQ	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
545	GNQEKVLELVQR	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
546	GPIYSNEFGKFF	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
547	GVQEGAGHYALL	Palm Kernel cake	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Metal chelating activity • Chelating activity is low 	(Zarei et al., 2014)
548	GVSNAAVVAGGH	Kamut	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • C-terminal His residue acts as radical scavenger 	(Coda et al., 2012)
549	HHLGGAKQAGDV	Velvet bean (<i>Mucuna pruriens</i>)	Antioxidant	(Herrera-ChaléFrancisco et al., 2016)
550	HNAVDSQIAGKA	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
551	KEFLLAGNNRA	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
552	LTETWNPNHPEL	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxyl radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
553	MDATALHYENQK	Wheat germ	ABTS scavenging activity	(Karami et al., 2019)
554	NEGALLLPNFNS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Peroxyl radical scavenging capacity • Increased NO_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
555	NKRSPQLQNLRD	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
556	NQRSPQLQNLRD	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
557	SILSDEEDERQQ	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H_2O_2 scavenging activity • Reducing power activity 	(Yu et al., 2021)
558	STTTKKHHPQYL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
559	TVTSLDLPVLRW	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
560	VEINEGGLLLPH	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
561	YFPTQALNFAFK	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
562	YFPVGGDRPESF	Rice (<i>Oryza sativa</i>)	Antioxidant	(Adebiyi et al., 2008)
563	YQETSSSSSQEQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu^{2+} chelating activity 	(Selamassakul et al., 2018)
564	AAVKKMYDIQAKK	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu^{2+} chelating activity 	(Selamassakul et al., 2018)
565	ACSNHSPLGWRGH	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Ngoh and Gan, 2016)
566	AELQVVDHLGQTV	Walnut meal (<i>Juglans regia</i> L.)	<ul style="list-style-type: none"> • Hydroxyl radical scavenging activity • Increase viability of SH-SY5Y cells that are treated with H_2O_2 • Reduce intracellular ROS 	(Sheng et al., 2019)
567	AIPVNRPGQLQSF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
568	AVYVYDVNNANQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu^{2+} chelating activity 	(Selamassakul et al., 2018)
569	DLAIPVNRPGQLQ	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300	(Garcia-Mora et al., 2015)

			MPa. Highest ORAC values were observed.	
570	FDTADLPSGKGYL	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
571	FEITPEKNPQLRD	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
572	FVDAQPKKKEEGN	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
573	FVDAQPQQKEEGN	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
574	GENDQRGGIVNVE	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
575	GGRLDSGKQPPRQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
576	KKSKADLTEVTHK	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
577	LAIPVKNKGRFES	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
578	LQGENDQRGPIIQ	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
579	LRENNKLMLELK	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Mojica, Chen and Mejía, 2015)
580	QEINKENVIVKVS	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
581	QNIFSGFSTELLS	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
582	QQFQSGQAQLTE	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
583	SEALGVSSQVARQ	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)

584	SILSDEEDERQQE	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
585	SLSLPNFHPMPRL	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
586	SPDIYNPEAGRIK	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity • ABTS radical scavenging activity • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
587	SPFLQSAAFQLRN	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
588	SVEIKEGSLLLPH	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
589	SVEINEGGLLLPH	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
590	TAGTGGGQFQPMR	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
591	TVTSLDLPVLRWL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
592	DMNEGALLLPHFNS	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
593	DQSYFVAGPEHRQQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
594	DVYKIGGIGTVPVG	Emmer	DPPH radical scavenging activity	(Babini et al., 2017)
595	MAPAAVAAAEAGSK	Whole wheat	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • High hydrophobicity, access hydrophobic radical species 	(Coda et al., 2012)
596	NEGALLLPHFNSKA	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
597	NIGHPTRSDVYNPR	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
598	NSSYFVEWIPNNVK	Emmer (<i>Triticum dicoccum</i>)	Antioxidant	(Babini et al., 2017)
599	QTIYENENGHIRLL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)

600	RRQEINKENVIVKV	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
601	SGGSYADELVSTAK	Wheat germ	ABTS radical scavenging activity	(Karami et al., 2019)
602	SILSEDEEQQKEKN	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
603	SIVDMNEGALLPH	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
604	SSPDIYNPEAGRIK	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity. • ABTS radical scavenging activity. • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
605	SVEINEGGLLLPHY	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
606	VVSNFGKTVFDGVL	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
607	DEEEGQEEETTKQV Q	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
608	DLAIPVNRPGQLQSF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
609	FEITPEKNPQLRDL	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
610	LSIVDMNEGALLPH	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
611	NAENNQRNFLAGSQ D	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
612	NLQSGDALRVPAGT T	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity 	(Amigo-Benavent et al., 2014)

			<ul style="list-style-type: none"> • Peroxyl radical scavenging capacity • Increased No_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	
613	QPSPQDYLNHNAA R	Chañar seeds (<i>Geoffroea decorticans</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Cotabarren et al., 2021)
614	REQEQEEGDVHY Q	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
615	RRQEINKENVIVKVS	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
616	SILSDEEDERQKEKN	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H_2O_2 scavenging activity • Reducing power activity 	(Yu et al., 2021)
617	SVEIKEGSLLLPHYN	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
618	VNSVEIKEGSLLLPH	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
619	YVVNPDNNENLRLIT	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased No_2^- production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
620	AAGAAAAARSAGQ CGR	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • Show highest activity 	(Coda et al., 2012)
621	ASEEQIRAISEHASRS	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
622	DLAIPVNRPGQLQSF LL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300 MPa. Highest ORAC values were observed.	(Garcia-Mora et al., 2015)
623	DRRQEINKENVIVKV S	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
624	HKEMQAIFDVYIMFI N	Kamut	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity • N-terminal His residue acts as metal ion chelator 	(Coda et al., 2012)
625	LNSGDALRVPSGTT YY	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
626	LQSGDALRVPSGTT YY	Soybean (<i>Glycine max</i>)	Antioxidant	(Chen, Muramoto and Yamauchi, 1995)
627	LSSLEMGS LGALFVC M	Kidney bean (<i>Phaseolus vulgaris</i>)	Antioxidant	(Ngoh and Gan, 2016)
628	RLSLPAGAPVTVAVS P	Rye	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)

629	SVEIKEGSLLLPHYNS	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
630	SWNLQNGERANVVI AF	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
631	VEIKEGSLLLPHYNS R	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
632	AGTGAGAGGGAGT KTSS	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
633	DPAQNPYPWTAVLV FRH	Cumin seeds (<i>Cuminum cyminum</i>)	Antioxidant	(Siow and Gan, 2016)
634	DSEGHRTAPCYVMK ILF	Bitter bean (<i>Parkia speciosa</i>)	Antioxidant	(Siow and Gan, 2013)
635	FEGTVFENGIDAA YRST	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
636	GPSSSPDIYNPEAGRI K	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
637	KLQGENDQRGPIIHV KE	Lotus seed (<i>Nelumbo nucifera</i> Gaertn.)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity • H₂O₂ scavenging activity • Reducing power activity 	(Yu et al., 2021)
638	NLERGDTIKLPAGTI AY	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
639	RFQTLYENENGHIRL LQ	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
640	SVEINEGGLLLPHYNS SR	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
641	TIDPNGLHLPSFSPSP Q	Chickpea seeds	<ul style="list-style-type: none"> • Reducing power activity • DPPH radical scavenging activity • Inhibit peroxy radical-induced DCFH oxidation to DCF in Caco-2 cells 	(Torres-Fuentes et al., 2015)
642	TVVPPKGGSFYPGET TP	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
643	VAPDMEHPHGTPGH RHH	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
644	EGSLLPHYNSRAIVI VT	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
645	IGPSSSPDIYNPEAGR IK	Garden pea (<i>Pisum sativum</i>)	Antioxidant	(Babini et al., 2017)
646	NFLAGSKDNVISQIP SQV	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
647	NLERGDTIKLPAGTI AYL	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)

648	NRFQTLTYENENGHIR LLQ	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
649	QAGTGAGAGGGAG TKTSS	Brown rice	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Cu²⁺ chelating activity 	(Selamassakul et al., 2018)
650	VGIKEQQKQKQEE EPLE	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
651	VGLKEQQEQQQEE QPLE	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
652	LAFPGSAQDVERLL KEQRE	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
653	NIGPSSSPDIYNPEAG RIK	Pea	<ul style="list-style-type: none"> • Superoxide anion and hydroxyl radicals scavenging activity. • ABTS radical scavenging activity • DPPH radical scavenging activity • Lipid peroxidation inhibition 	(Babini et al., 2017)
654	VNSVEIKEGSLLPH YNSR	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Identified from S2 hydrolysate (which has the highest ORAC values).	(Garcia-Mora et al., 2014)
655	YEWEPTVPNFDVAK DVTDM	Kamut	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
656	YGENIAWSSGDLGS TAAVK	Chañar seeds (<i>Geoffroea decorticans</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • ABTS radical scavenging activity 	(Cotabarren et al., 2021)
657	GREQEREQEQQEE GDVHYQ	Tomato seed (<i>Solanum lycopersicum</i>)	<ul style="list-style-type: none"> • DPPH radical scavenging activity • Phosphomolybdate reducing activity 	(Meshginfar et al., 2018)
658	LAFPGSAQAVEKLL KNQRES	Soybean	<ul style="list-style-type: none"> • ABTS radical scavenging activity • Peroxyl radical scavenging capacity • Increased NO₂⁻ production • Decrease in TBARS levels (lipid peroxidation) • Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
659	TVVPPKGSFYPPGET TPLQQ	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
660	AIAGAGVLSGYDQL QILFFGK	Spelt	<ul style="list-style-type: none"> • Inhibition of linoleic peroxidation • DPPH radical scavenging activity 	(Coda et al., 2012)
661	FNTEYEEIEKVLLEE QEQKSQ	Lentil seeds (<i>Lens culinaris</i> var. Castellana)	Peptides identified from lentil hydrolysates produced by HP-assisted proteolysis using Savinase at 300	(Garcia-Mora et al., 2015)

			MPa. Highest ORAC values were observed.	
662	PPGPGPGPPPPGAA GRGGGG	Kamut	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity 	(Coda et al., 2012)
663	RCMAFLLSDGAAAA QQLLPQYW	Cumin seeds (<i>Cuminum cyminum</i>)	Antioxidant	(Siow and Gan, 2016)
664	FFRSKLLSDGAAAA KGALLPQYW	Cumin seeds (<i>Cuminum cyminum</i>)	Antioxidant	(Siow and Gan, 2016)
665	FLGQQQFPFPQQPYP QPQFPSPQQP	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
666	LGQQQFPFPQQPYPQ PQFPSPQQPY	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
667	NAENNQRNFLAGSQ DNVISQIPSVQ	Soybean	<ul style="list-style-type: none"> ABTS radical scavenging activity Peroxyl radical scavenging capacity Increased NO₂⁻ production Decrease in TBARS levels (lipid peroxidation) Increase in H-Caco-2 cells of MnSOD and CAT activity 	(Amigo-Benavent et al., 2014)
668	SEVGVPNLPWDDTV AAYAQNANQR	Chañar seeds (<i>Geoffroea decorticans</i>)	<ul style="list-style-type: none"> DPPH radical scavenging activity ABTS radical scavenging activity 	(Cotabarren et al., 2021)
669	DLADIPQQRLMAG LALVVATVIFLK	Rye	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity Show highest activity among peptides in rye 	(Coda et al., 2012)
670	FLGQQQFPFPQQPYP QPQFPSPQQPY	Wheat (<i>Triticum aestivum</i>)	Antioxidant	(Babini et al., 2017)
671	VFVDEGLEVLGWRP VPFNVSVVGRNAK	Rye	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity 	(Coda et al., 2012)
672	KNGSIFNSPSATAATI IHGHNYSLAYLDF VTSK	Rye	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity Show highest activity among peptides in rye 	(Coda et al., 2012)
673	NANGELCPNNMCCS QWGYCGLGSEFCGN GCQSGACCPEK	Rye	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity 	(Coda et al., 2012)
674	SKWQHQQDSCRKQ KQGVNLTPEKHIM EKIQGRGDDDDDDDD DD	Soybean (<i>Glycine max</i>)	Antioxidant	(Lule et al., 2015; Singh, Vij and Hati, 2014)
675	GTIFFSQEGDGPTSV TGSVSGLKPGHLGF HVHALGDTTNGCMS TGPHFNPTGK	Rye	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity Show highest activity among peptides in rye 	(Coda et al., 2012)
676	DTAAGYVAPDPAPV STGDYGLAGAEAPH PHESAVMSGAAAAA VAPGGEAYTR	Kamut	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity 	(Coda et al., 2012)
677	TGGGSTSSSSSSSL GGGASRGSVVEAAP PATQGAAANAPAV PVVVVDTEAGIR	Kamut	<ul style="list-style-type: none"> Inhibition of linoleic peroxidation DPPH radical scavenging activity 	(Coda et al., 2012)

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Table S2: Search words used in Scopus to compile seed-derived antioxidant peptides.

No.	Search word
1	“antioxidant peptides” OR “antioxidative peptides” AND “seeds”
2	“antioxidant peptide” OR “antioxidative peptide” AND “seed”
3	“antioxidant peptide” OR “antioxidative peptide” AND “cereal”
4	“antioxidant peptide” OR “antioxidative peptide” AND “legume”
5	“antioxidant peptide” OR “antioxidative peptide” AND “pea”
6	“antioxidant peptide” OR “antioxidative peptide” AND “nut”
7	“antioxidant peptide” OR “antioxidative peptide” AND “cocoa bean”
8	“antioxidant peptide” OR “antioxidative peptide” AND “coffee bean”
9	“antioxidant peptide” OR “antioxidative peptide” AND “bean”
10	“antioxidant peptide” OR “antioxidative peptide” AND “durian seed”
11	“antioxidant peptide” OR “antioxidative peptide” AND “mustard seed”
12	“antioxidant peptide” OR “antioxidative peptide” AND “poppy seed”
13	“antioxidant peptide” OR “antioxidative peptide” AND “pomegranate seed”
14	“antioxidant peptide” OR “antioxidative peptide” AND “chestnut”
15	“antioxidant peptide” OR “antioxidative peptide” AND “peanut”
16	“antioxidant peptide” OR “antioxidative peptide” AND “hazelnut”
17	“antioxidant peptide” OR “antioxidative peptide” AND “palm kernel”
18	“antioxidant peptide” OR “antioxidative peptide” AND “coconut kernel”

Table S3: Coordinates of box center and box size for different targets in molecular docking, and RMSD values.

Target	Box center			Box size (Å)			RMSD value
	x	y	z	x	y	z	
p47 ^{phox}	-	-	-	-	-	-	1.54
Keap1	5	7	2	15	15	15	1.41
MPO	-25	-45	43	25	25	25	1.07
XO	29	21	15	25	25	25	1.82

Table S4: Docking scores for peptides that were experimentally demonstrated to inhibit p47^{phox}-p22^{phox} interaction and NADPH oxidase, in comparison with p22^{phox}

Peptide	Docking score
p22 ^{phox} -derived proline-rich peptide (GPLGSKQPPSNPPPRPPAEARKKPS) ¹	-309.862
RRSSIRNAHSIHQRSRKRLS ²	-268.079
ISNSESGPRGVHFIFNKENF ³	-266.627
RSRKRLSQDAYRRNSVRFLQQR ²	-257.842
AGGPPGGPQVNPIPVTDDEVV ³	-202.725

HPEPDOCK access date: 1/12/2021

¹ Ogura, K.; Nobuhisa, I.; Yuzawa, S.; Takeya, R.; Torikai, S.; Saikawa, K.; Sumimoto, H.; Inagaki, F. NMR solution structure of the tandem Src homology 3 domains of p47^{phox} complexed with a p22^{phox}-derived proline-rich peptide. *Journal of Biological Chemistry* 2006, 281, 3660-3668, doi:10.1074/jbc.M505193200.

² Huang, J.; Kleinberg, M.E. Activation of the phagocyte NADPH oxidase protein p47^{phox}: Phosphorylation controls SH3 domain-dependent binding to p22^{phox}*. *Journal of Biological Chemistry* 1999, 274, 19731-19737, doi:10.1074/jbc.274.28.19731.

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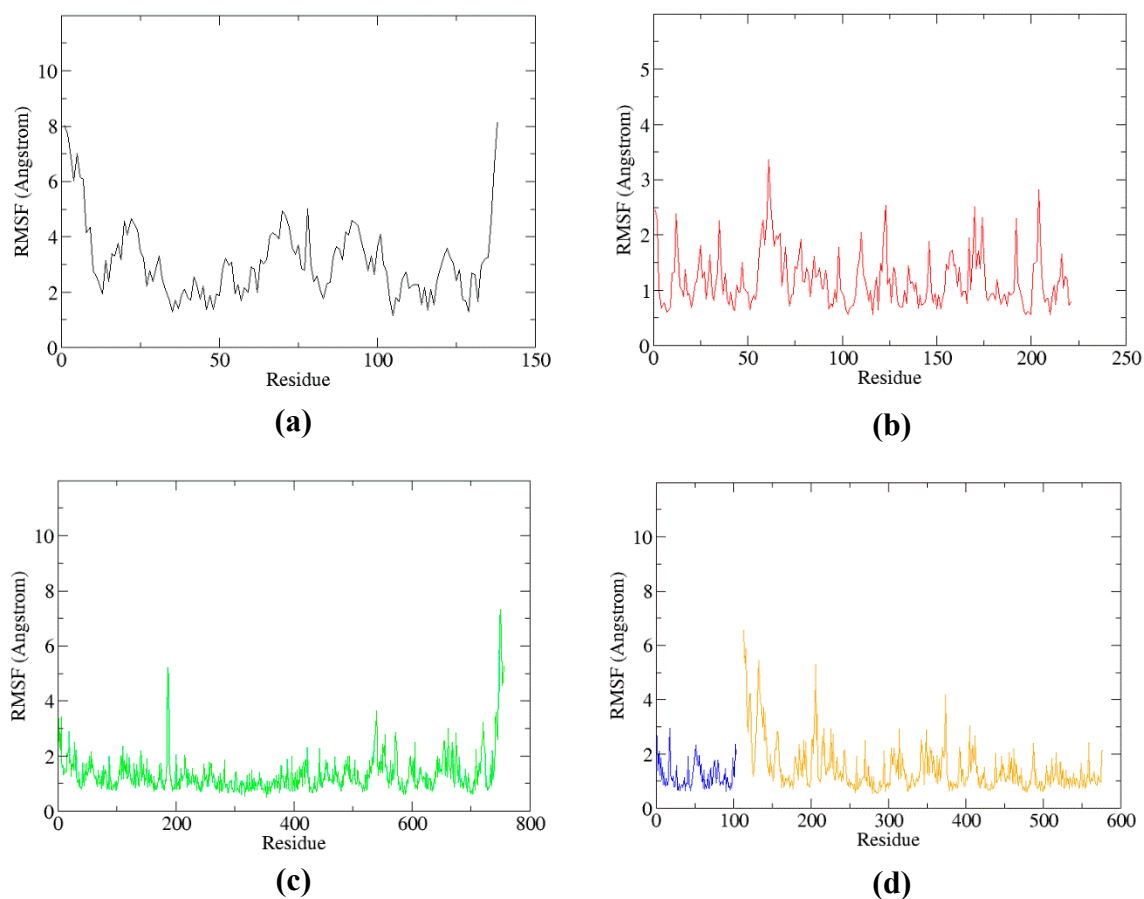


Figure S1: RMSF plots for (a) PSYLNTPLL-p47^{phox}, (b) LYSPH-Keap1, (c) LYSPH-XO, and (d) LYSPH-MPO.

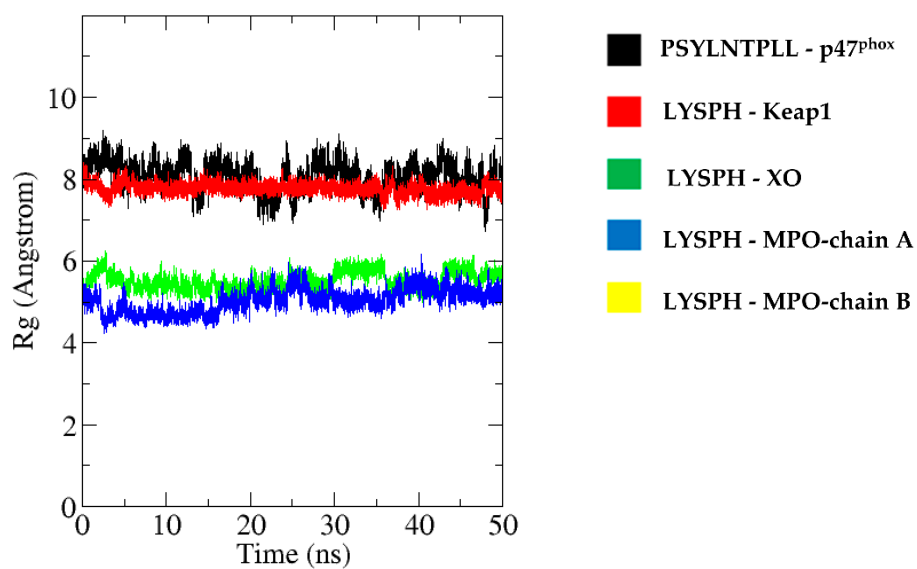


Figure S2: Gyration (Rg) plots of each complex.