

Table S1. Accession numbers, species and common names of ribosome inactivating proteins sequences used in this work for primary structure analyses.

N	Database : ID	Protein	Organism	Notes
1	A0A369K8V5	peptidyl-Lys metalloendopeptidase lyophyllin	<i>Hypsizygus marmoreus</i>	lyophyllin-like 1
2	A0A550CMU2	aspzincin_M35 domain-containing protein	<i>Auriculariopsis ampla</i>	lyophyllin-like 2
3	D8Q666	aspzincin_M35 domain-containing protein	<i>Schizophyllum commune</i>	lyophyllin-like 3
4	A0A8H4VKN6	uncharacterized protein	<i>Agrocybe pediades</i>	lyophyllin-like 4
5	A0A8H5B176	uncharacterized protein	<i>Coprinellus angulatus</i>	lyophyllin-like 5
6	A0A0D2PCR9	aspzincin_M35 domain-containing protein	<i>Hypholoma sublateritium</i>	lyophyllin-like 6
7	I1C083	mucoricin	<i>Rhizopus delemar</i>	
8	A0A167P735	carbohydrate-binding module family 13 protein	<i>Phycomyces blakesleeanus</i>	mucoricin-like 1
9	A0A8H7R6A7	uncharacterized protein	<i>Mucor saturninus</i>	mucoricin-like 2
10	A0A8H7VWX2	uncharacterized protein	<i>Thamnidium elegans</i>	mucoricin-like 3
11	A0A8H7ENF4	uncharacterized protein	<i>Apophysomyces ossiformis</i>	mucoricin-like 4
12	A0A8H7PQU0	uncharacterized protein	<i>Umbelopsis vinacea</i>	mucoricin-like 5
13	P23339.1	PAP-S	<i>Phytolacca americana</i>	plant type 1 RIP
14	P20656.2	saporin-6	<i>Saponaria officinalis</i>	plant type 1 RIP
15	P84854.2	PD-L3/PD-L4	<i>Phytolacca dioica</i>	plant type 1 RIP
16	AAK82460.1	cinnamomin	<i>Cinnamomum camphora</i>	plant type 2 RIP; chain-A
17	1HWM_A	ebulin-1	<i>Sambucus ebulus</i>	plant type 2 RIP; chain-A
18	1BR5_1	ricin A chain	<i>Ricinus communis</i>	plant type 2 RIP; chain-A
19	PWA35173.1	uracil-DNA-glycosylase	<i>Artemisia annua</i>	outgroup