

Supplementary Materials: Protective Effects of the Hydroethanolic Extract of *Fridericia chica* on Undifferentiated Human Neuroblastoma Cells Exposed to α -Zearalenol (α -ZEL) and β -Zearalenol (β -ZEL)

Neda Alvarez-Ortega, Karina Caballero-Gallardo, María Taboada-Alquerque, Jackeline Franco, Elena E. Stashenko, Cristina Juan, Ana Juan-García and Jesus Olivero-Verbel

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Table S1. Exact mass characteristic positive ions of compounds identified by UPLC-QTOF-MS/MS in *Fridericia chica* extract.

No. Fig. S1	Fragment ions			Identification criteria	References
	Fragment type	Fragment formula	m/z		
1	[M+H] ⁺	[C ₂₇ H ₃₁ O ₁₅] ⁺	595.16445	a	[1, 2]
	[M+H-H ₂ O] ⁺	[C ₂₇ H ₂₉ O ₁₄] ⁺	577.15256		
	[M+H-C ₄ H ₈ O ₄] ⁺	[C ₂₃ H ₂₃ O ₁₁] ⁺	475.12146		
	[M+H-H ₂ O-C ₄ H ₈ O ₄] ⁺	[C ₂₃ H ₂₁ O ₁₀] ⁺	457.11136		
	[M+H-C ₄ H ₈ O ₄ -C ₅ H ₁₀ O ₅] ⁺	[C ₁₈ H ₁₃ O ₆] ⁺	325.06927		
2	[M+H] ⁺	[C ₂₁ H ₂₁ O ₁₁] ⁺	449.10791	a	[3]
	[M+H-H ₂ O] ⁺	[C ₂₁ H ₁₉ O ₁₀] ⁺	431.09599		
	[M+H-C ₄ H ₈ O ₄] ⁺	[C ₁₇ H ₁₃ O ₇] ⁺	329.06487		
	[M+H-C ₅ H ₁₀ O ₅] ⁺	[C ₁₆ H ₁₁ O ₆] ⁺	299.05412		
3	[M+H] ⁺	[C ₂₁ H ₁₉ O ₁₂] ⁺	463.08709	a	[4]
	[M+H-C ₆ H ₈ O ₆] ⁺	[C ₁₅ H ₁₁ O ₆] ⁺	287.05390		
4	[M+H] ⁺	[C ₁₆ H ₁₃ O ₇] ⁺	317.06545	b	[3, 5]
	[M+H-CH ₃] ⁺	[C ₁₅ H ₁₀ O ₇] ⁺	302.04162		
	[M+H-CH ₃ -C ₈ H ₆ O ₂] ⁺	[C ₇ H ₄ O ₅] ⁺	168.00428		
	[M+H-CH ₃ -CO-C ₈ H ₆ O ₂] ⁺	[C ₆ H ₄ O ₄] ⁺	140.00976		
5	[M+H] ⁺	[C ₁₇ H ₁₅ O ₆] ⁺	315.08649	a	[6]
	[M+H-CH ₃] ⁺	[C ₁₆ H ₁₂ O ₆] ⁺	300.06299		
	[M+H-2CH ₃ -CO] ⁺	[C ₁₄ H ₉ O ₅] ⁺	257.04335		
	[M+H-2CH ₃ -C ₈ H ₅ O] ⁺	[C ₇ H ₄ O ₅] ⁺	168.00477		
6	[M+H] ⁺	[C ₁₆ H ₁₃ O ₆] ⁺	301.07016	b	[7, 5]
	[M+H-CH ₃] ⁺	[C ₁₅ H ₁₀ O ₆] ⁺	286.04677		
	[M+H-CH ₃ -C ₈ H ₆ O] ⁺	[C ₇ H ₄ O ₅] ⁺	168.00477		

7	[M+H] ⁺	[C ₁₅ H ₁₁ O ₅] ⁺	271.06018	b	[8, MassBank code: CCMSLIB00000848378)
	[M+H-C ₈ H ₆ O] ⁺	[C ₇ H ₅ O ₄] ⁺	153.0115		
8	[M+H] ⁺	[C ₁₆ H ₁₃ O ₆] ⁺	301.07061	a	[7]
	[M+H-CH ₃] ⁺	[C ₁₅ H ₁₀ O ₆] ⁺	286.04669		
	[M+H-CH ₃ -CO] ⁺	[C ₁₄ H ₁₀ O ₅] ⁺	258.05211		
	[M+H-CH ₃ -C ₈ H ₅ O] ⁺	[C ₇ H ₅ O ₅] ⁺	169.01260		
9	[M+H] ⁺	[C ₁₆ H ₁₃ O ₅] ⁺	285.07564	a	[1]
	[M+H-CH ₃] ⁺	[C ₁₅ H ₁₀ O ₅] ⁺	270.05204		
	[M+H-CH ₃ -CO] ⁺	[C ₁₄ H ₁₀ O ₄] ⁺	242.05713		
10	[M+H] ⁺	[C ₁₆ H ₁₃ O ₅] ⁺	285.07554	b	[3, MassBank code: BML00818)
	[M+H-CH ₃] ⁺	[C ₁₅ H ₁₀ O ₅] ⁺	270.05188		
	[M+H-CH ₃ -CO] ⁺	[C ₁₄ H ₁₀ O ₄] ⁺	242.05709		
	[M+H-CH ₃ -C ₈ H ₅ O] ⁺	[C ₇ H ₅ O ₄] ⁺	153.01768		

^a Tentative identification based on m/z positive mode, reported in the literature for *Fridericia chica* or other species of the Bignoniaceae family.

^b Tentative identification based on the fragmentation pattern study (ESI-QTOF) and data reported in scientific articles

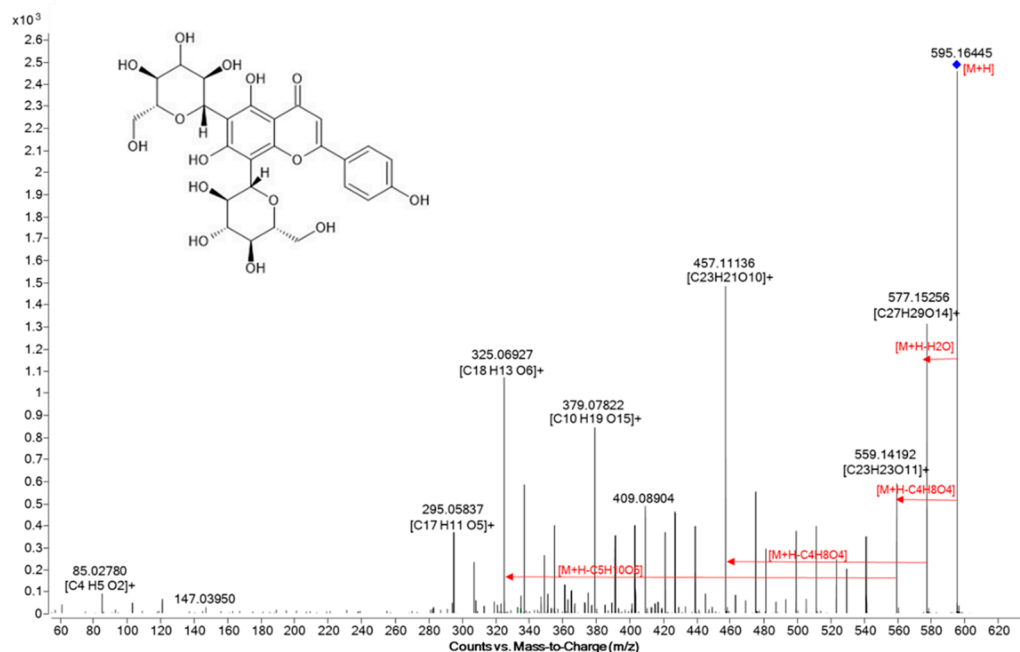
2. Figure S1: Compound fragment spectrum results (MS/MS).**Compound 1**

Retention time: 4.204

 m/z $[M+H]^+$: 595.16445Formula: $C_{27}H_{30}O_{15}$

Tentative annotation: Vicenin-2

Compound class: Flavone glycosides

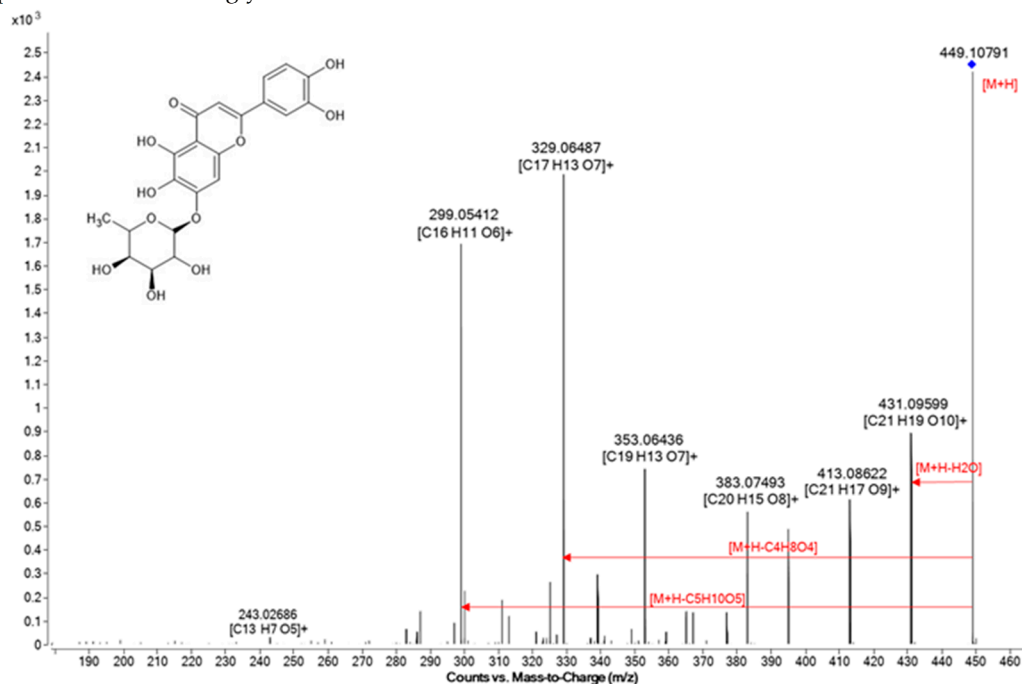
**Compound 2**

Retention time: 4.732

 m/z $[M+H]^+$: 449.10791Formula: $C_{21}H_{20}O_{11}$

Tentative annotation: 6-hydroxyluteolin 7-rhamnoside

Compound class: Flavone glycosides



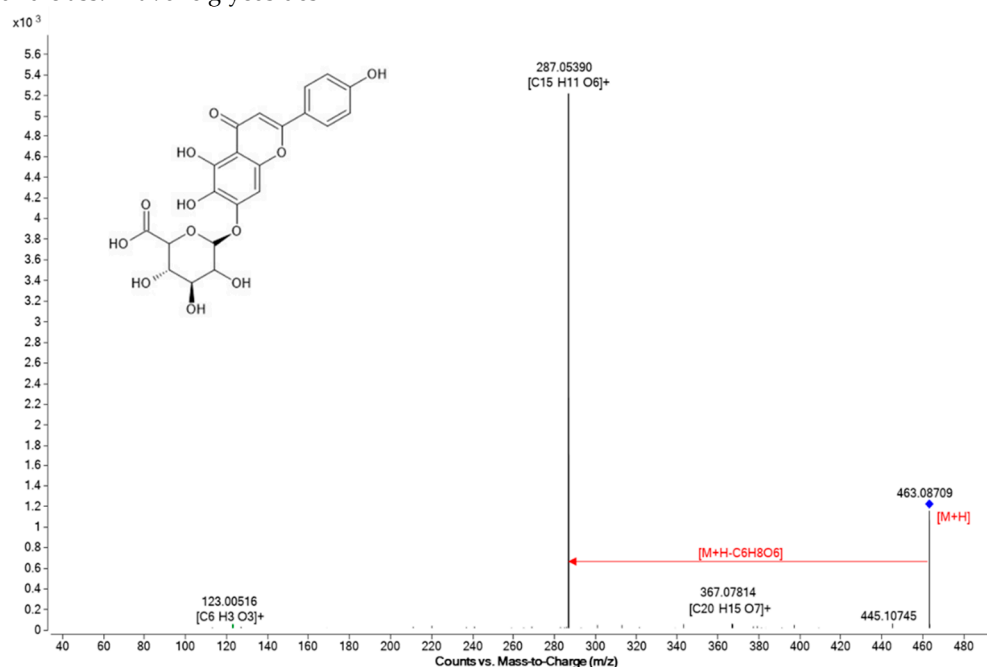
Compound 3

Retention time: 5.158

 m/z $[M+H]^+$: 463.08709Formula: $C_{21}H_{18}O_{12}$

Tentative annotation: Scutellarein-O-glucuronide

Compound class: Flavone glycosides

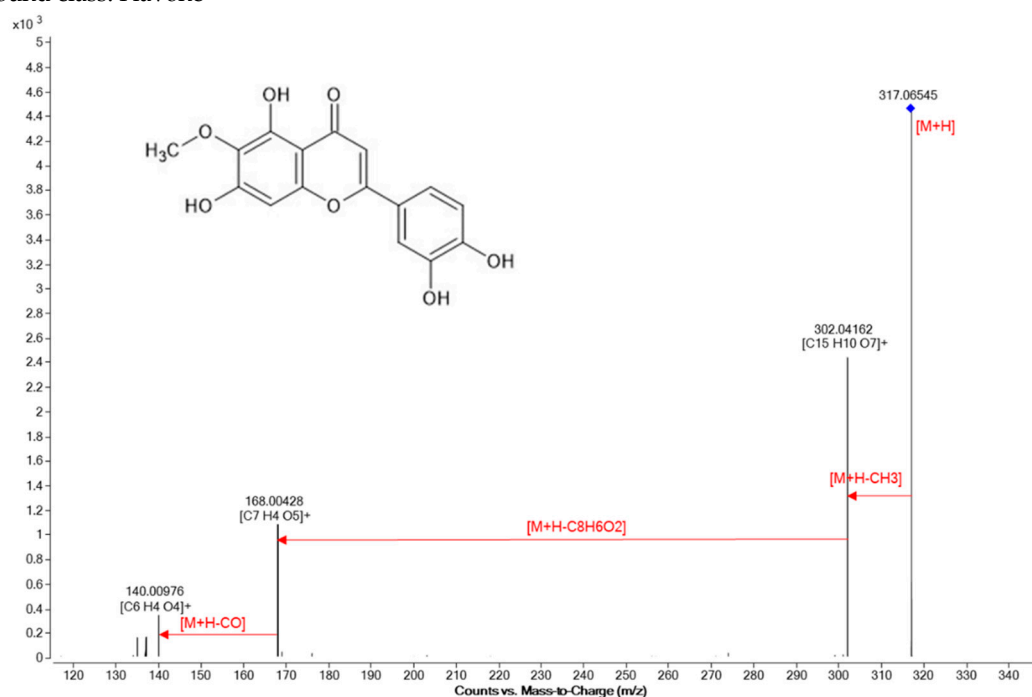
**Compound 4**

Retention time: 5.355

 m/z $[M+H]^+$: 317.06545Formula: $C_{16}H_{12}O_7$

Tentative annotation: Nepetin (6-Methoxyluteolin)

Compound class: Flavone



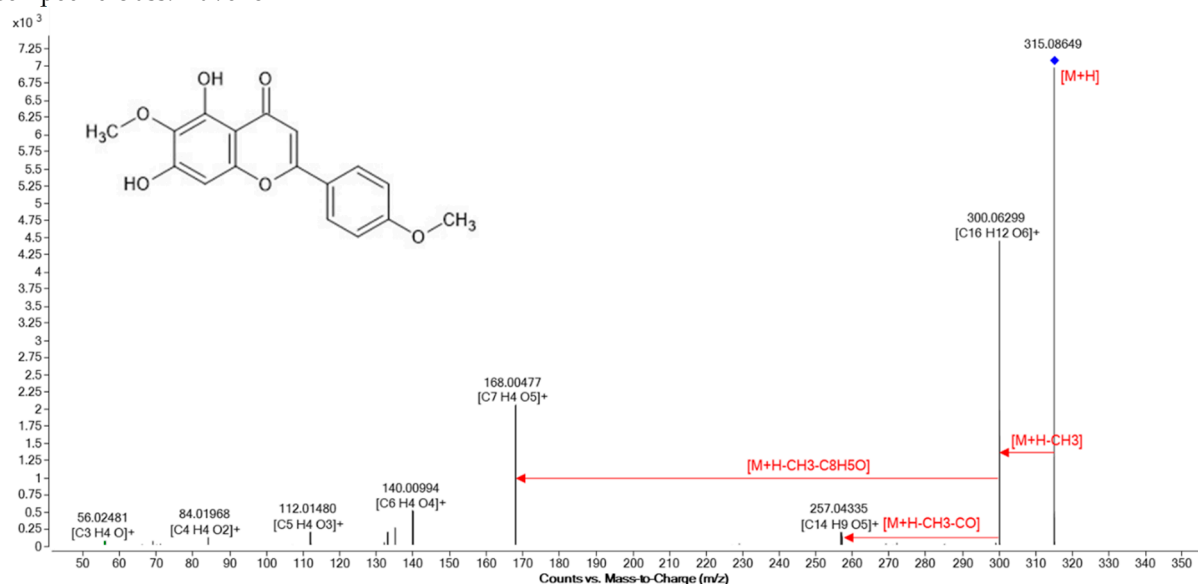
Compound 5

Retention time: 7.443

 m/z [M+H]: 315.08646Formula: $C_{17}H_{14}O_6$

Tentative annotation: Pectolinarigenin

Compound class: Flavone

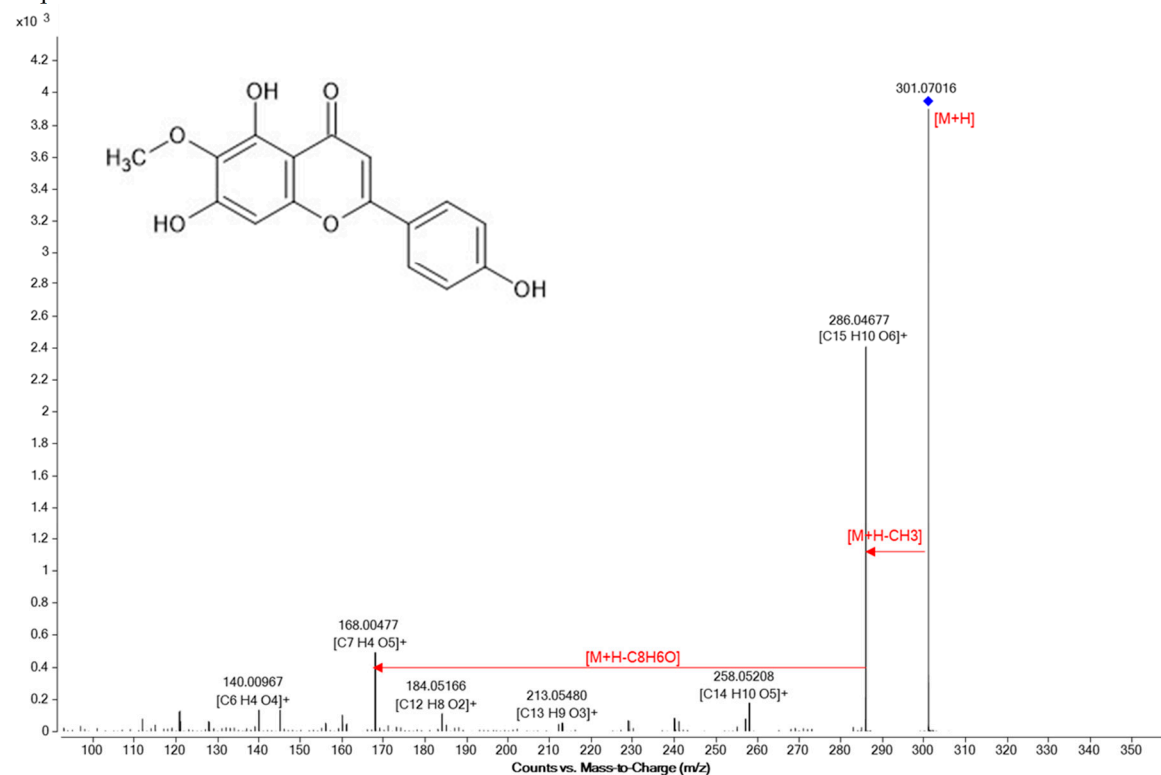
**Compound 6**

Retention time: 7.578

 m/z [M+H]: 301.07016Formula: $C_{16}H_{12}O_6$

Tentative annotation: Hispidulin

Compound class: Flavone



Compound 7

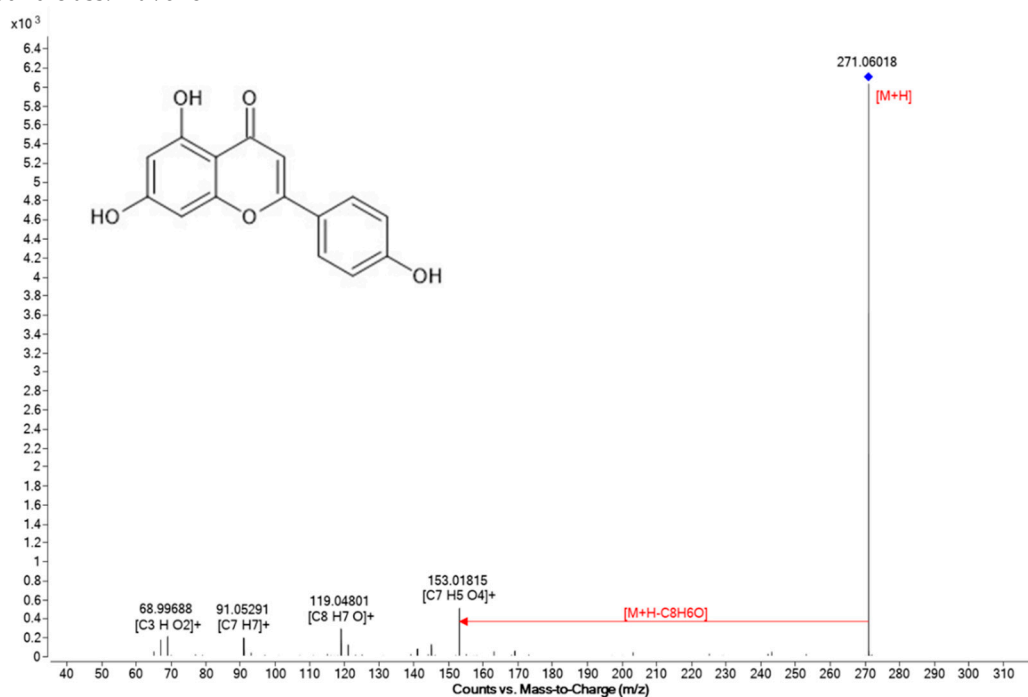
Retention time: 7.631

m/z [M+H]: 271.06018

Formula: C₁₅H₁₀O₅

Tentative annotation: Apigenin

Compound class: Flavone

**Compound 8**

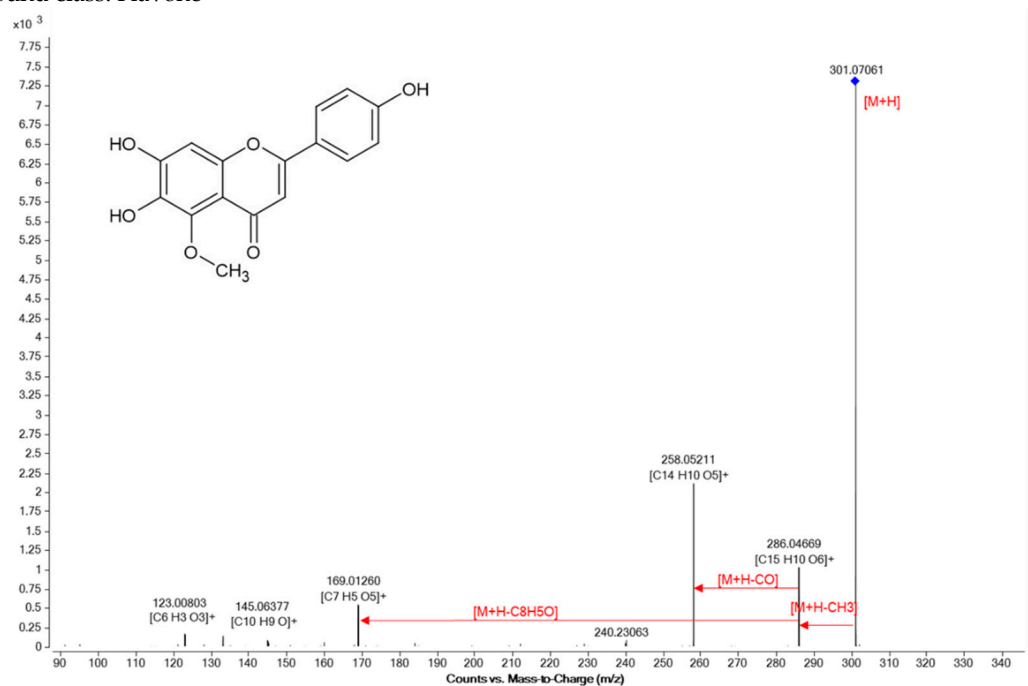
Retention time: 8.254

m/z [M+H]: 301.07061

Formula: C₁₆H₁₂O₆

Tentative annotation: 5-O-methylscutellarein

Compound class: Flavone



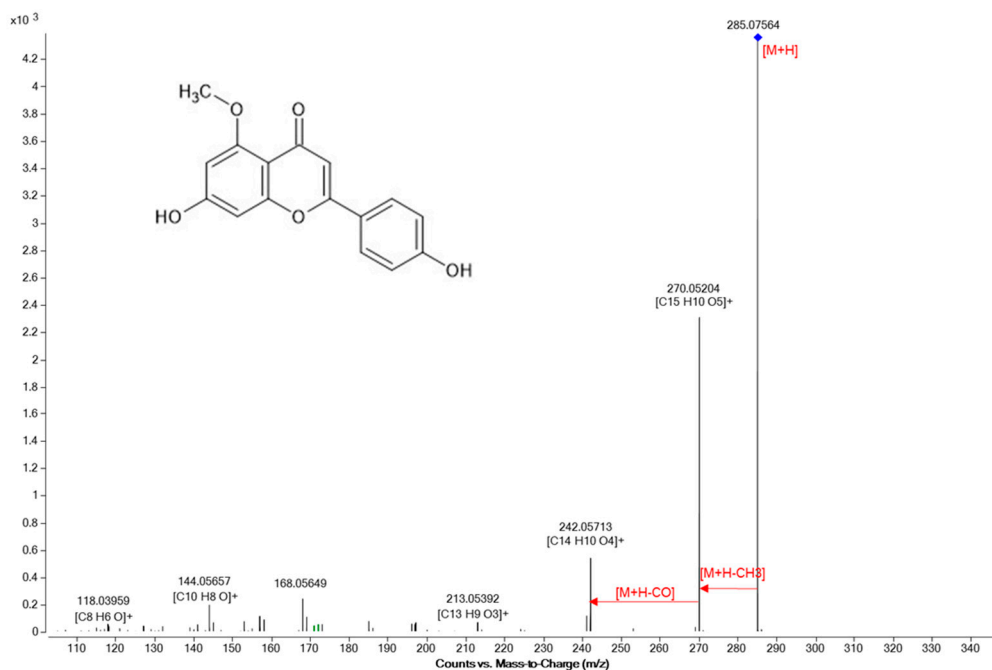
Compound 9

Retention time: 9.331

 m/z [M+H]: 285.07564Formula: $C_{16}H_{12}O_5$

Tentative annotation: Thevetiaflavone

Compound class: Flavone

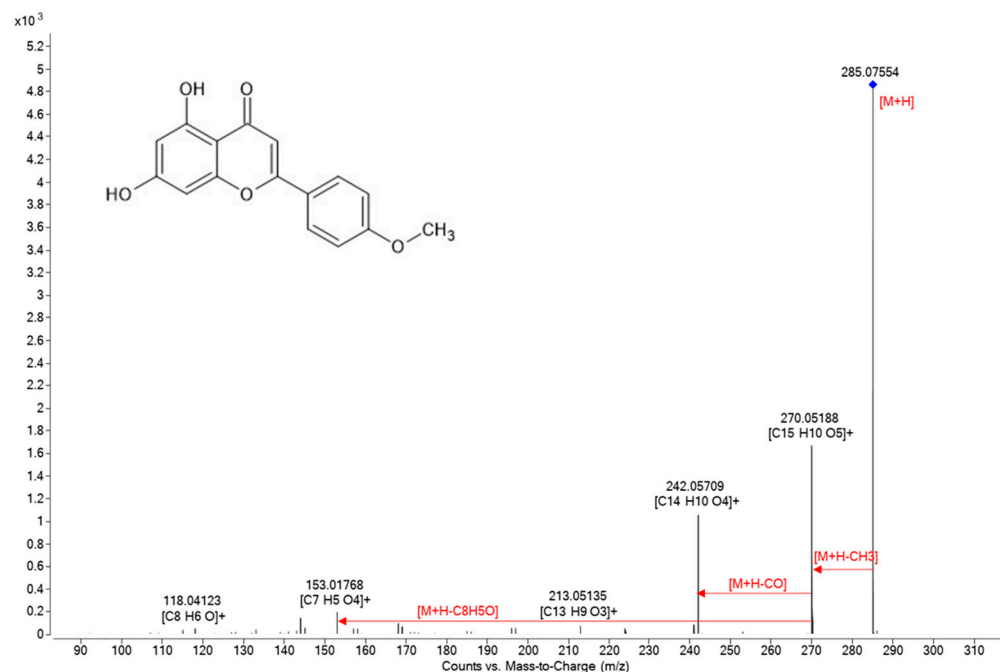
**Compound 10**

Retention time: 9.572

 m/z [M+H]: 285.07554Formula: $C_{16}H_{12}O_5$

Tentative annotation: Acacetin

Compound class: Flavone



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