

Fig. S1 Base peak chromatograms of the following fractions: (A) hydro-alcoholic extracts; (B)

Aqueous fraction;(C) Ethyl acetate fraction; (D) Chloroform fraction; (E)Butanolic fraction; (F)

Partial enlarged drawing of butanolic fraction.

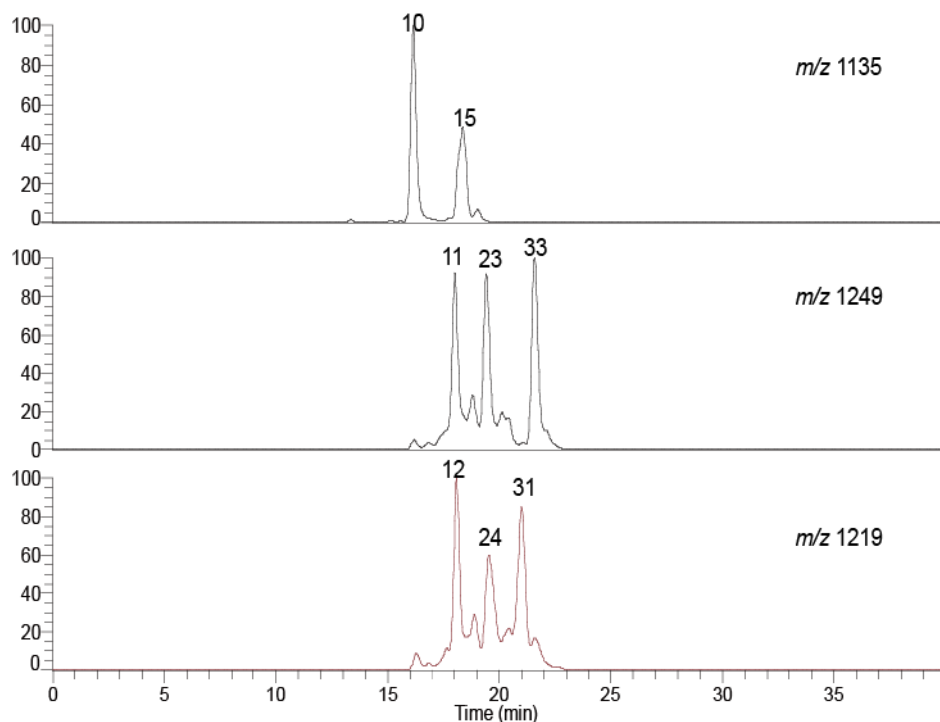


Fig. S2 Extracted ion chromatograms of the ions at m/z 1135, 1249 and 1219 respectively.

Table S1 Accurate mass measurements for the product ion of $[M-H]^-$ ion at m/z 1203 for compound **29** by negative ion high-resolution ESI-MS².

Observed mass (Da)	Calculated mass (Da)	Error (ppm)	Formular
1101.50989	1101.51123	-1.22	$C_{53}H_{81}O_{24}$
1071.53516	1071.53705	-1.77	$C_{53}H_{83}O_{22}$
1023.51300	1023.51592	-2.85	$C_{53}H_{83}O_{22}$
891.47260	891.47366	-1.20	$C_{47}H_{71}O_{16}$
667.41962	667.42045	-1.24	$C_{40}H_{59}O_8$
553.38806	553.38875	-1.25	$C_{35}H_{53}O_5$
451.10828	451.10823	0.10	$C_{17}H_{23}O_{14}$

Table S2 Accurate mass measurements for the product ion of m/z 1071 ion from $[M-H]^-$ ion at m/z 1203 by negative ion high-resolution ESI-MS³.

Observed mass (Da)	Calculated mass (Da)	Error (ppm)	Formular
909.48248	909.48423	-1.92	$C_{47}H_{73}O_{17}$
891.47015	891.47366	-3.94	$C_{47}H_{71}O_{16}$

Table S3 Accurate mass measurements for the product ion of m/z 1023 ion from $[M-H]^-$ ion at m/z 1203 ion by negative ion high-resolution ESI-MS³.

Observed mass (Da)	Calculated mass (Da)	Error (ppm)	Formular
451.10822	451.10823	-0.04	$C_{17}H_{23}O_{14}$

Table S4 Accurate mass measurements for the product ion of m/z 891 ion from $[M-H]^-$ ion at m/z 1203 by negative ion high-resolution ESI-MS³

Observed mass (Da)	Calculated mass (Da)	Error (ppm)	Formular
553.38782	553.38875	-1.69	C ₃₅ H ₅₃ O ₅
571.39825	571.39932	-1.86	C ₃₅ H ₅₅ O ₆

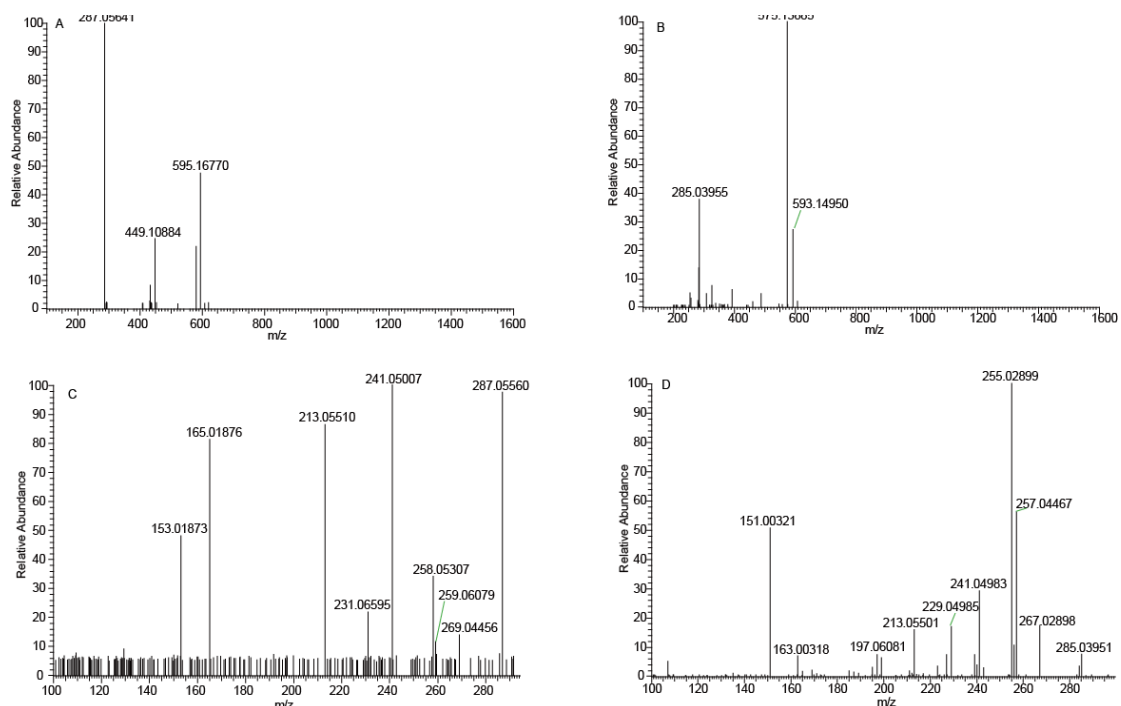


Fig. S3 The MS² and MS³ spectra of Camelliaside A (compound 1). (A) The positive MS² spectra (B) The negative MS² spectra (C) The positive MS³ spectra (D) The negative MS³ spectra

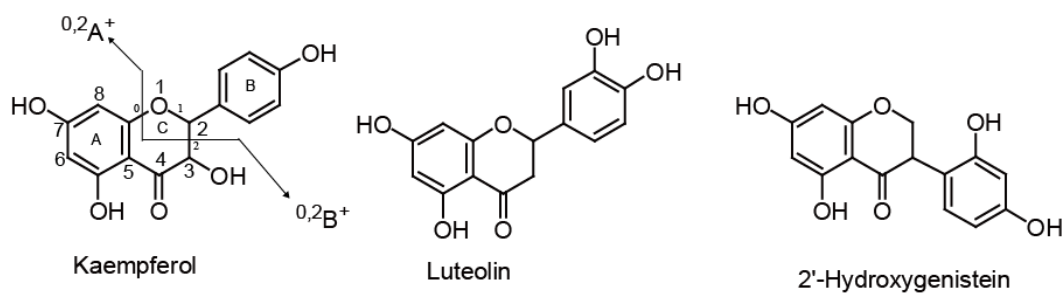
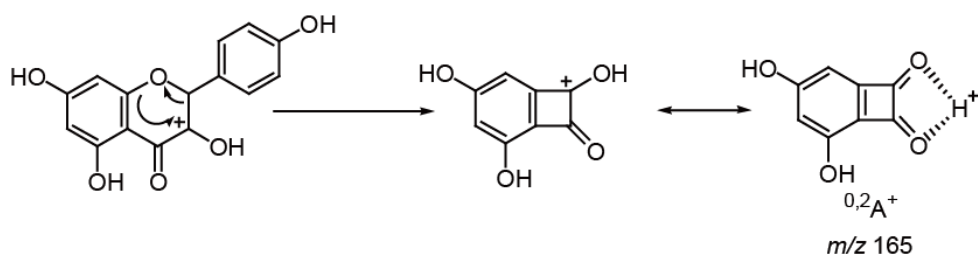


Fig. S4. Structures of kaempferol and its isomers.



Scheme S1. Proposed mechanism for the formation of m/z 165 ion.

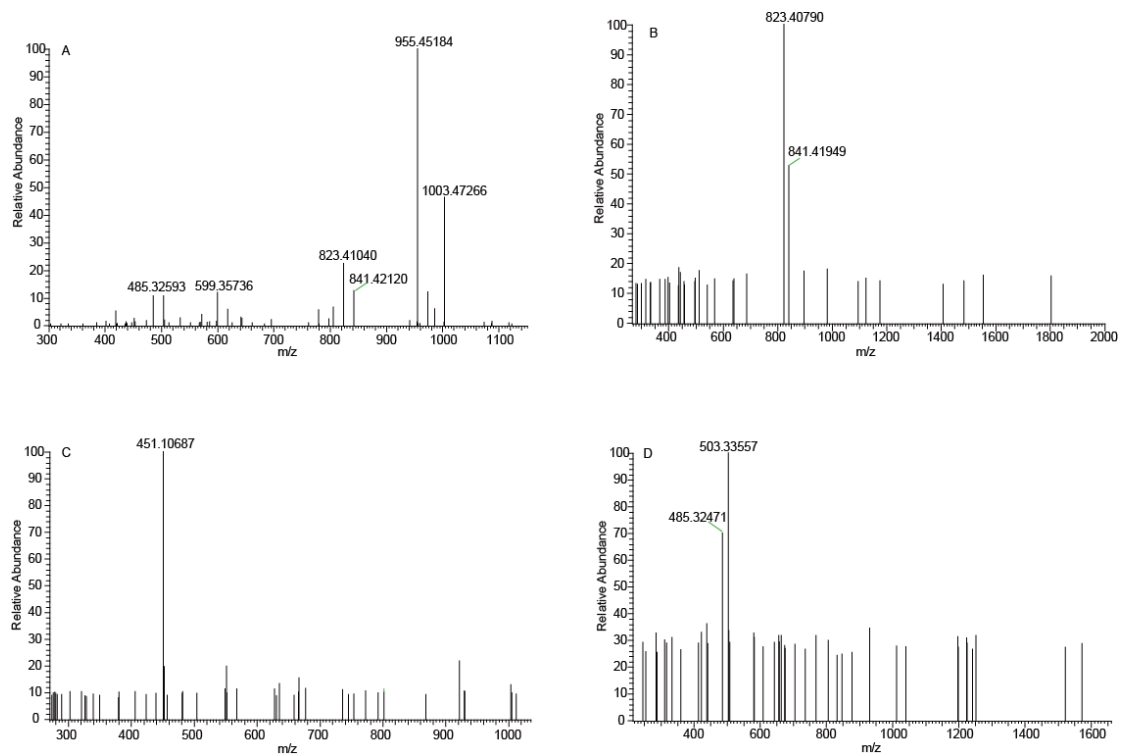
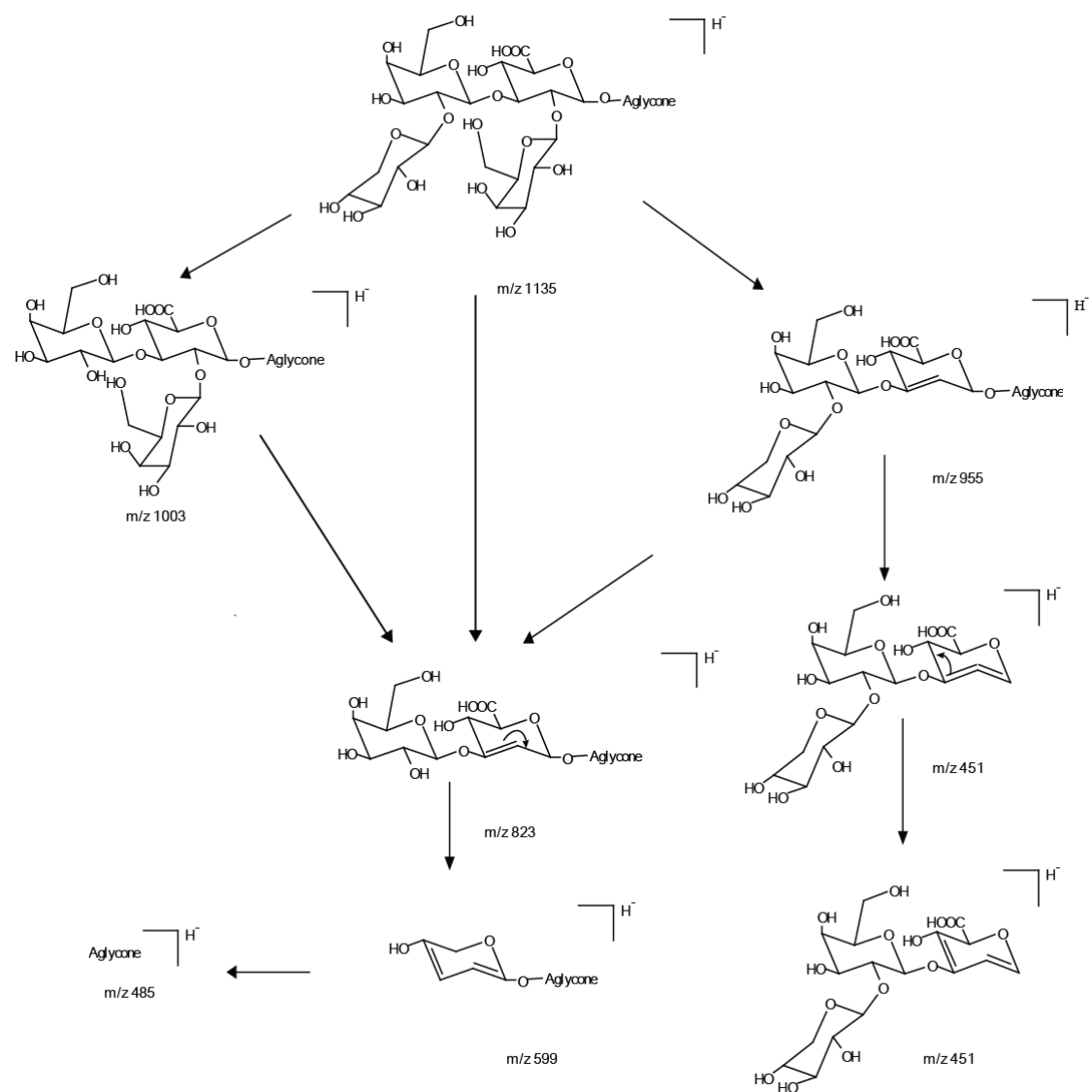


Fig. S5 The MS^2 and MS^3 spectra of compound **10** in negative ion mode. (A) The MS^2 spectra. (B) The product ion of m/z 1003 ion. (C) The product ion of m/z 955 ion. (D) The product ion of m/z 823 ion.



Scheme S2 The proposal fragmentation pathway of compound 10.

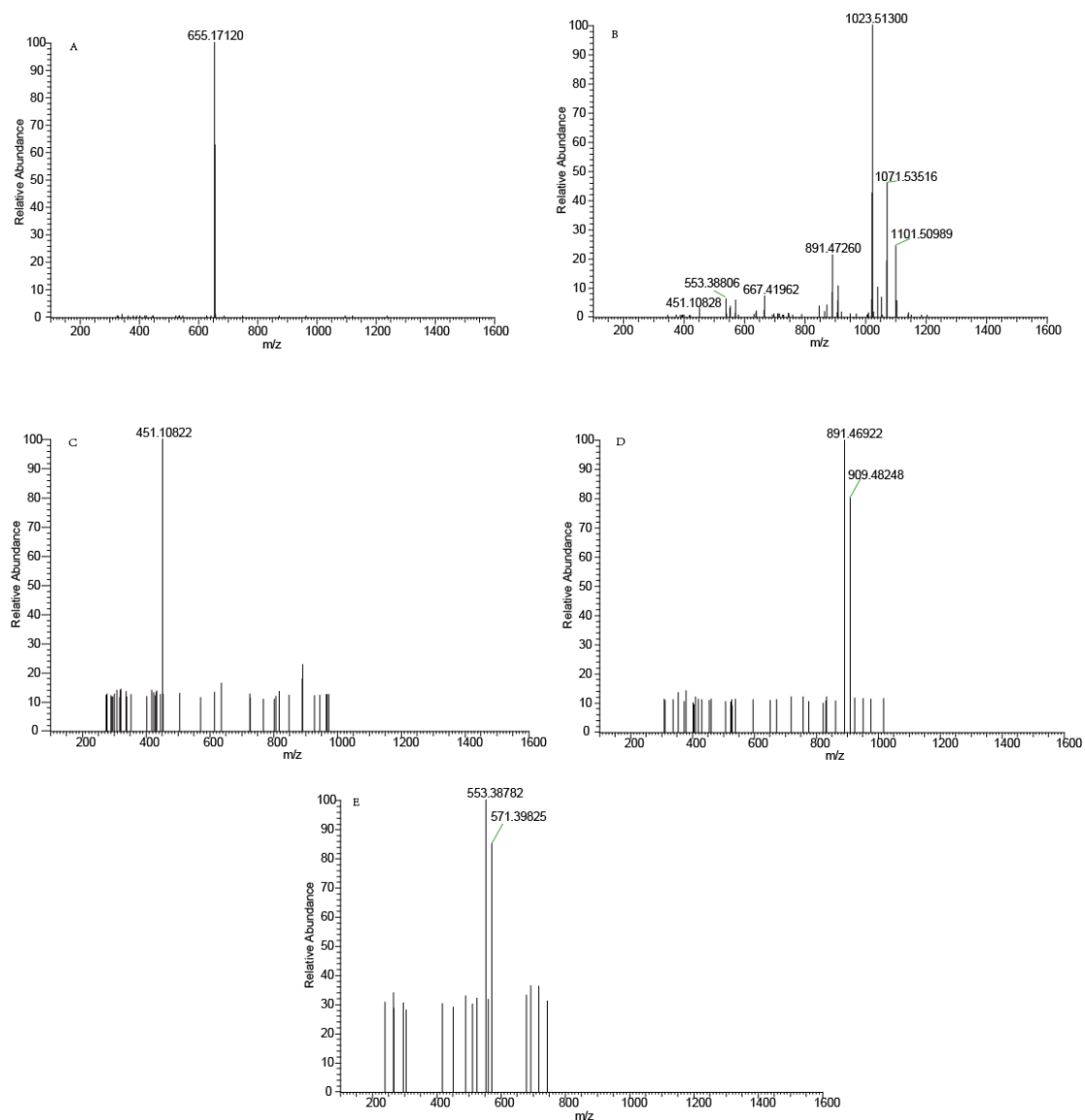


Fig.S6 The MS^2 and MS^3 spectra of compound **29**. (A) The product ion of $[M+Na]^+$ ion at m/z 1227 in positive ion mode. (B) The MS^2 spectra of m/z 1203 ion in negative ion mode. (C) The product ion of m/z 1023 ion in MS^3 spectra. (D) The product ion of m/z 1071 ion in MS^3 spectra. (E) The product ion of m/z 891 ion in MS^3 spectra.