

Supplementary materials

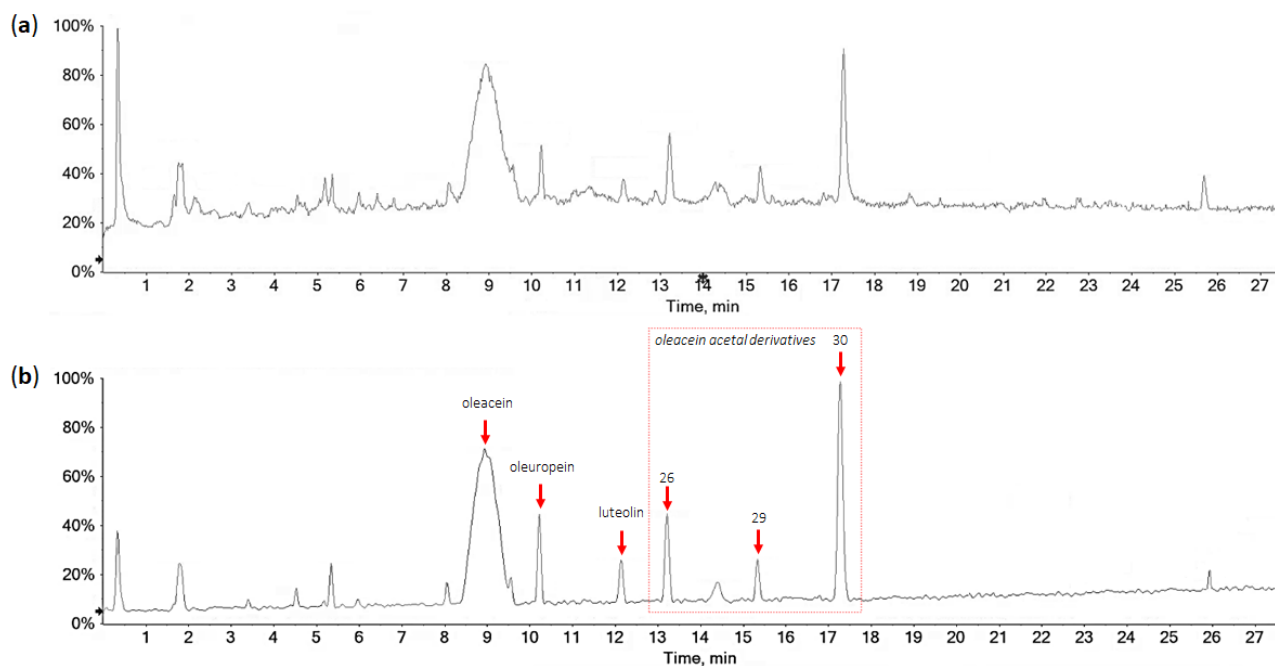


Figure S1. (a) Total Ion Current (TIC) and (b) Base Peak Chromatogram (BPC) of OLC extract. Red arrows denote the quantified compounds, considered the main responsible for the observed bioactivity.

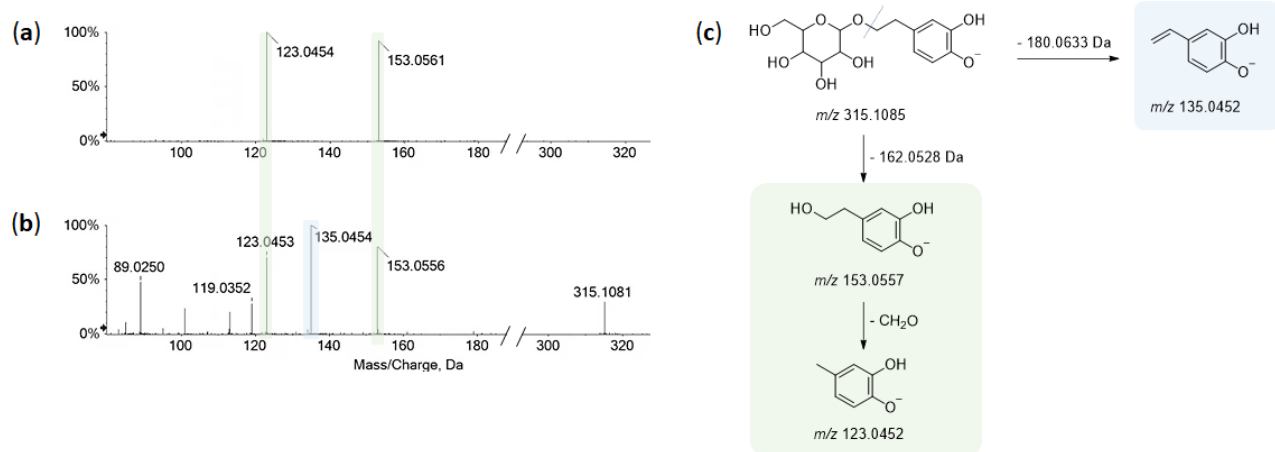


Figure S2. TOF-MS/MS spectra of (a) hydroxytyrosol and (b) hydroxytyrosol hexoside; (c) hypothesized fragmentation pathways.

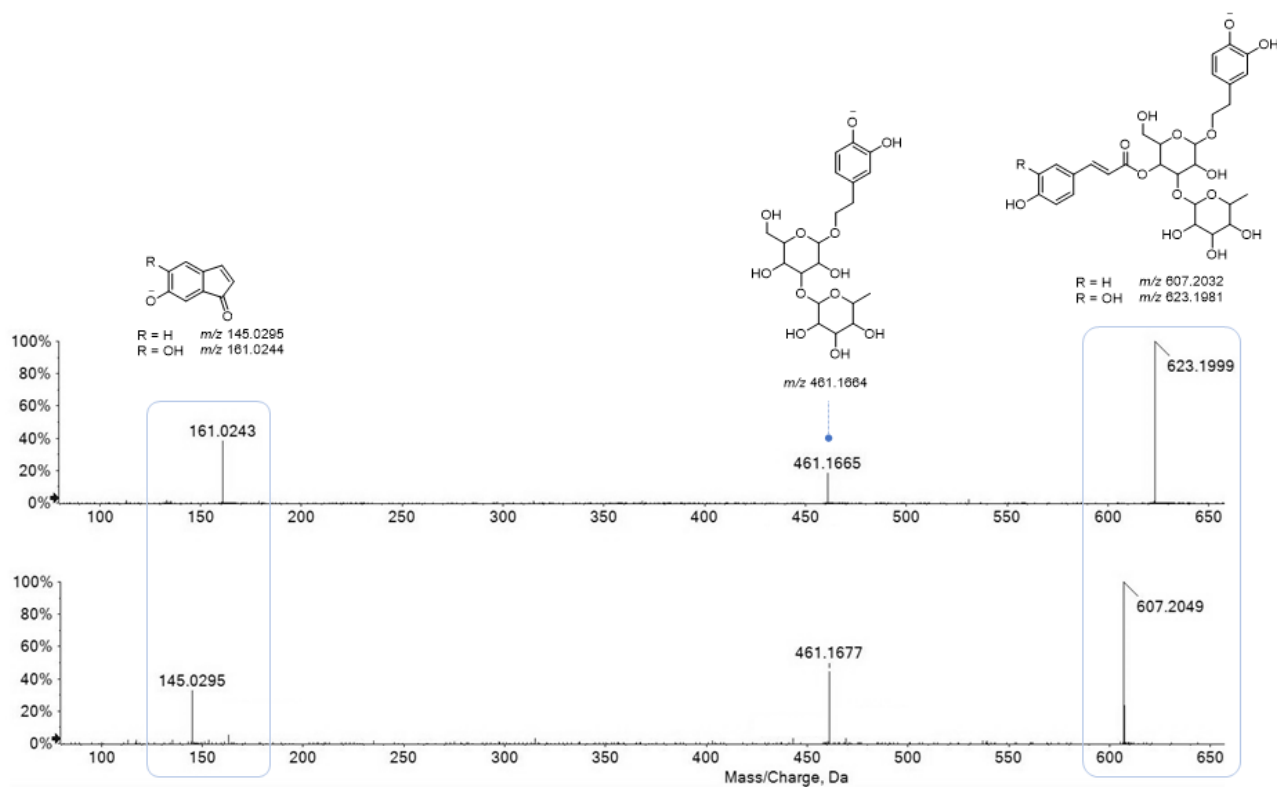
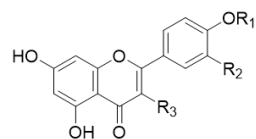
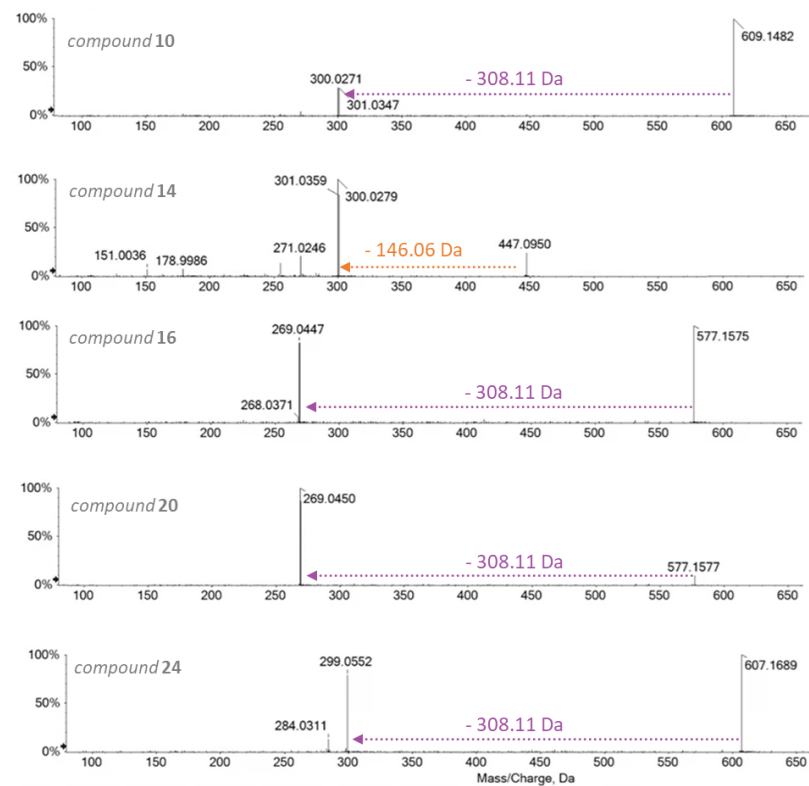
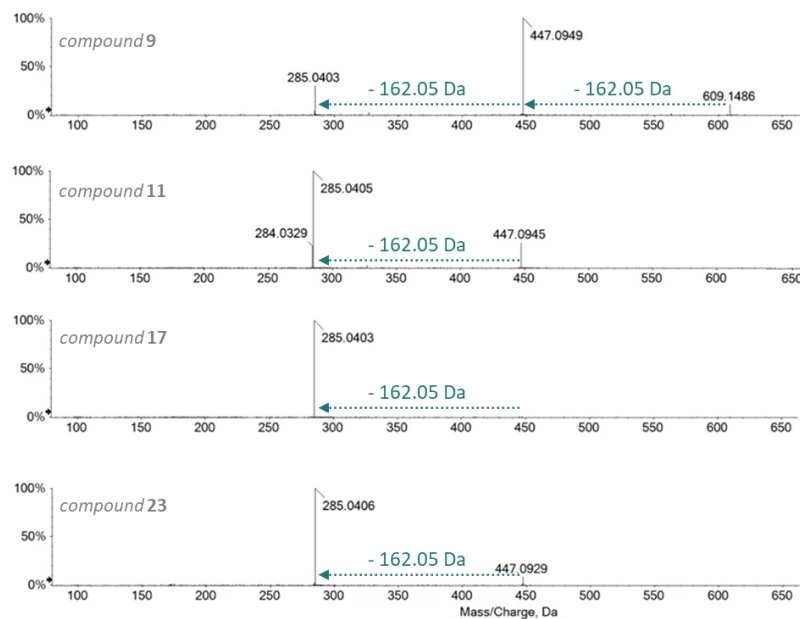


Figure S3. TOF-MS/MS spectra of compounds **12** (at m/z 623.1981, calc. mass), **15** and **21** (at m/z 607.2032, calc. mass). The hypothesized chemical structures of the detected ions are reported with theoretical m/z values.



aglycones

9,11,17,23	R ₁ = H	R ₂ = OH	R ₃ = H	luteolin
10,14	R ₁ = H	R ₂ = OH	R ₃ = OH	quercetin
16,20	R ₁ = H	R ₂ = H	R ₃ = H	apigenin
24	R ₁ = CH ₃	R ₂ = OH	R ₃ = H	diosmetin

deoxyhexose - H₂O

hexose - H₂O

deoxyhexosylhexose - H₂O

Figure S4. TOF-MS/MS spectra of detected flavonoid glycosides. The aglycone structures are provided together with the glyconic moieties.

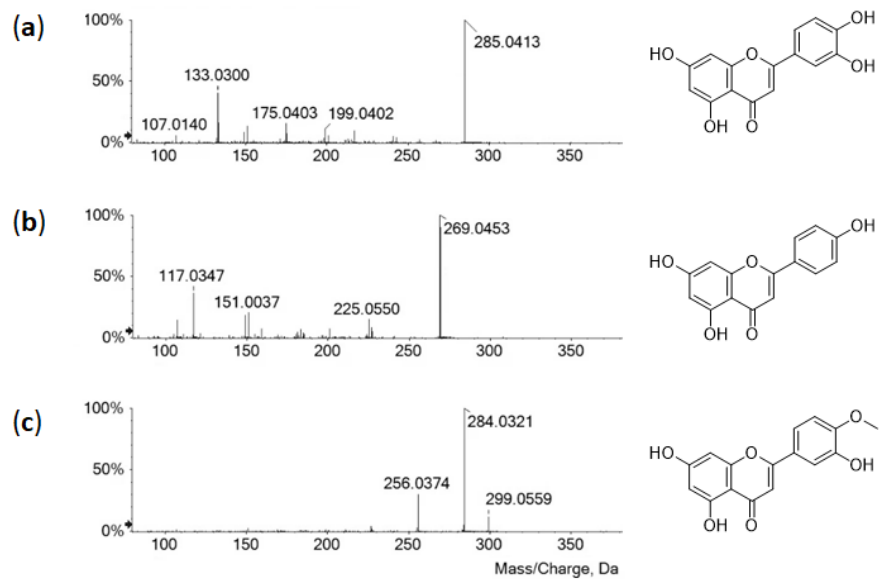


Figure S5. TOF-MS spectra of flavones: (a) luteolin, (b) apigenin, and (c) diosmetin.

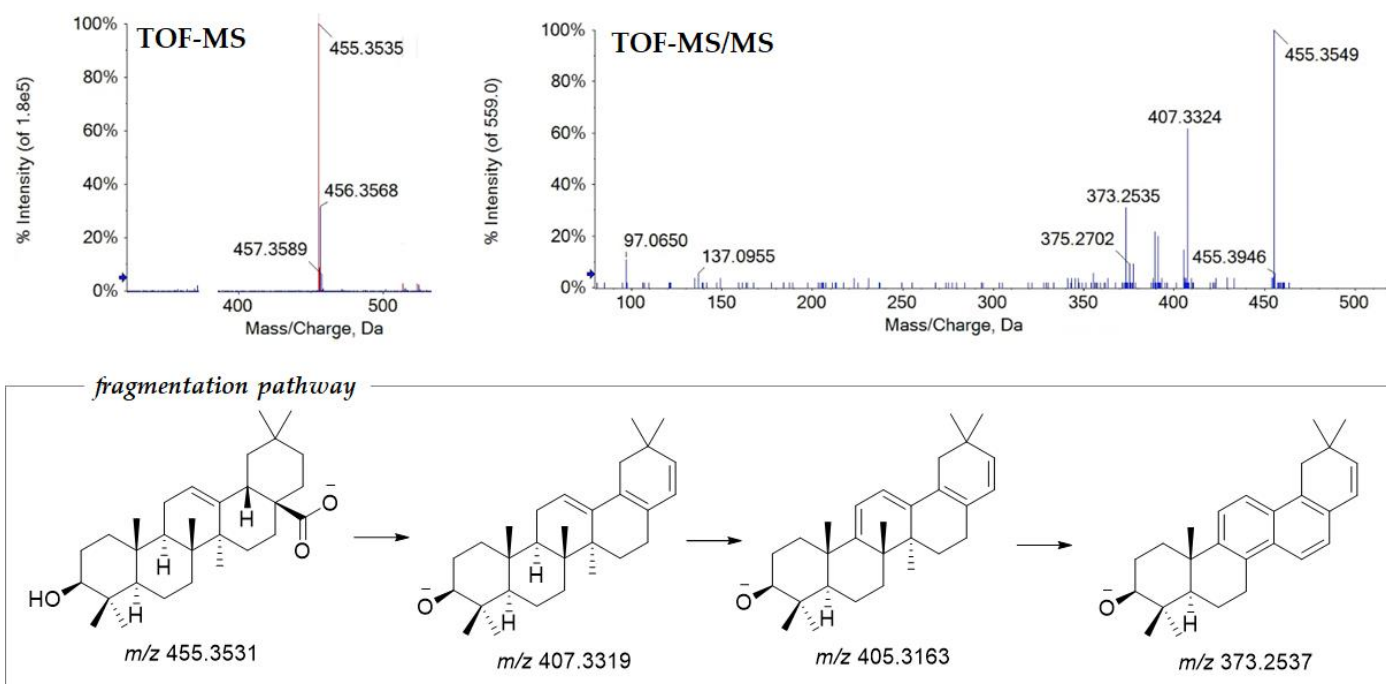


Figure S6. Experimental evidence of the occurrence of oleanolic acid (XIC = eXtracted Ion Chromatogram).