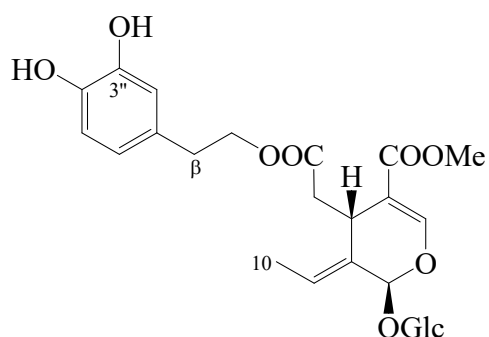




>>Entry Name: Oleuropein
ENTRY UNDER REVIEW



Absolute
Configuration

CAS Registry Number: 32619-42-4

Molecular Formula: C₂₅H₃₂O₁₃

Molecular Weight: 540.52

Accurate Mass: 540.184295

Percentage Composition: C 55.55%; H 5.97%; O 38.48%

Biological Source: Bitter principle of olives, *Olea europaea*, isol. also from *Fraxina japonicus*

Biological Use/Importance: Antihypertensive agent

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 89-91°

Optical Rotation: $[\alpha]_D^{26} -168$ (c, 0.67 in MeOH)

Calculated Log P Data: Log P -1.75 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 228 (ϵ 17900); 233 (ϵ 15850); 280 (ϵ 5250); 284 (ϵ 3020) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 230 (E1%/1cm 277); 232 (ϵ 14135); 282 (ϵ 2973); 326 (E1%/1cm 49) (EtOH) (Berdy)

Other Data: Artifact

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 1300 mg/kg , LD₅₀ (mus, orl) 3000 mg/kg

>>Derivative: 4"-O-β-D-Glucopyranoside

Synonym(s): 4"-Glucopyranosyloleuropein

Molecular Formula: C₃₁H₄₂O₁₈

Molecular Weight: 702.662

Accurate Mass: 702.23712

Percentage Composition: C 52.99%; H 6.02%; O 40.99%

Biological Source: Constit. of *Jasminum polyanthum*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{27} -149$ (c, 0.73 in MeOH)

UV: [neutral] $\lambda_{\max}$ 226 (log ϵ 4.06); 240 (sh) (log ϵ 4) (MeOH)

>>Derivative: Tetra-Ac

Molecular Formula: C₃₃H₄₀O₁₇

Molecular Weight: 708.669

Accurate Mass: 708.226555

Percentage Composition: C 55.93%; H 5.69%; O 38.38%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 58-59°

Optical Rotation: $[\alpha]_D -62$ (c, 1 in AcOH)

>>Derivative: 3"-Deoxy

Synonym(s): Ligustroside. Ligstroside

CAS Registry Number: 35897-92-8

Molecular Formula: C₂₅H₃₂O₁₂

Molecular Weight: 524.521

Accurate Mass: 524.18938

Percentage Composition: C 57.25%; H 6.15%; O 36.60%

Biological Source: Found in *Ligustrum obtusifolium*, *Fraxina griffithi*, *Fraxina excelsior* and olives (*Olea europaea*)

Physical Description: Noncryst.

Optical Rotation: $[\alpha]_D -110.7$ (c, 1 in EtOH). $[\alpha]_D^{20} -181.1$ (c, 0.6 in MeOH)

>>Derivative: 3"-Deoxy, 6'-O-β-D-glucopyranosyl

Synonym(s): Angustifolioside B