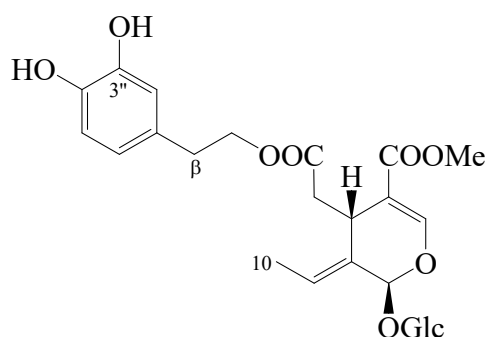




>>Entry Name: Oleuropein  
ENTRY UNDER REVIEW



Absolute  
Configuration

CAS Registry Number: 32619-42-4

Molecular Formula:  $C_{25}H_{32}O_{13}$

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

Other Data: Artifact

Hazard & Toxicity: BERDY HAZD : LD<sub>50</sub> (mus, ipr) 1300 mg/kg , LD<sub>50</sub> (mus, orl) 3000 mg/kg

>>Derivative: 4"-O- $\beta$ -D-Glucopyranoside

Synonym(s): 4"-Glucopyranosyloleuropein

Molecular Formula:  $C_{31}H_{42}O_{18}$

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  $\epsilon$  4.06); 240 (sh) (log  $\epsilon$  4) (MeOH)

>>Derivative: Tetra-Ac

Molecular Formula:  $C_{33}H_{40}O_{17}$

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:  $C_{25}H_{32}O_{12}$

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- $\beta$ -D-glucopyranosyl

Synonym(s): Angustifolioside B