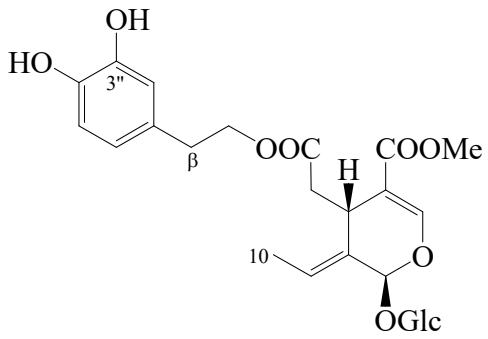
>>**Entry Name: Oleuropein**
ENTRY UNDER REVIEW



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] λ_{max} 228 (ε 17900); 233 (ε 15850); 280 (ε 5250); 284 (ε 3020) (MeOH) (Berdy) [neutral] λ_{max} 230 (E1%/1cm 277); 232 (ε 14135); 282 (ε 2973); 326 (E1%/1cm 49) (EtOH) (Berdy)
Other Data: Artifact
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ipr) 1300 mg/kg , LD_{50} (mus, orl) 3000 mg/kg

>>**Derivative:** 4"-*O*-β-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] λ_{max} 226 (log ε 4.06); 240 (sh) (log ε 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*-β-D-glucopyranosyl
Synonym(s): Angustifolioside B