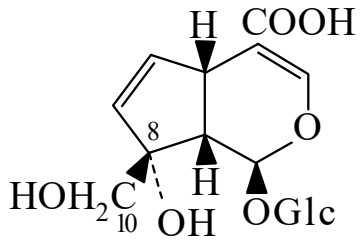
>>**Entry Name: Monotropein**



CAS Registry Number: 5945-50-6

Molecular Formula: $C_{16}H_{22}O_{11}$
Molecular Weight: 390.343
Accurate Mass: 390.116215
Percentage Composition: C 49.23%; H 5.68%; O 45.09%
Biological Source: Constit. of *Monotropa hypopithys, Monotropa uniflora, Liquidambar styraciflua, Liquidambar orientalis* and *Pyrola renifolia*. Widespread in the Pyrolaceae
Physical Description: Cryst. + $1H_2O$ (H_2O)
Melting Point: Mp 175 dec.°
Optical Rotation: $[\alpha]_D^{18}$ –127.7 (H_2O)

>>**Derivative:** Me ester
Synonym(s): Galioside

CAS Registry Number: 54712-59-3

Molecular Formula: $C_{17}H_{24}O_{11}$
Molecular Weight: 404.37
Accurate Mass: 404.131865
Percentage Composition: C 50.50%; H 5.98%; O 43.52%
Biological Source: Isol. from *Galium mollugo* and *Astroloma humifusum*
Physical Description: Amorph.
Optical Rotation: $[\alpha]_D$ –86.2 (MeOH)
Solubility: BERDY SOL: Poorly sol. hexane
UV: [neutral] λ_{max} 189 (); 242 () (H_2O) (Berdy)

>>**Derivative:** 10-Ac, Me ester
Synonym(s): Galioside 10-acetate

Molecular Formula: $C_{19}H_{26}O_{12}$
Molecular Weight: 446.407
Accurate Mass: 446.14243
Percentage Composition: C 51.12%; H 5.87%; O 43.01%
Biological Source: Constit. of *Fouquieria diguetii*
Optical Rotation: $[\alpha]_D$ –63.6 (MeOH)

>>**Derivative:** Me ester, penta-Ac

Physical Description: Cryst.
Melting Point: Mp 150-151° (147-148°)
Optical Rotation: $[\alpha]_D^{18}$ –76.2 (EtOH)

>>**Derivative:** 10-Benzoyl, Me ester
Synonym(s): Galioside 10-benzoate

Molecular Formula: $C_{24}H_{28}O_{12}$
Molecular Weight: 508.478
Accurate Mass: 508.15808
Percentage Composition: C 56.69%; H 5.55%; O 37.76%
Biological Source: Constit. of *Astroloma humifusum*
Physical Description: Amorph.
Optical Rotation: $[\alpha]_D^{23}$ –45 (c, 0.6 in MeOH)

>>**Derivative:** 10-*O*-(*p*-Hydroxy-*E*-cinnamoyl)
Synonym(s): Vaccinoside