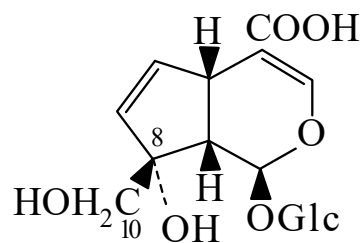




>>Entry Name: Monotropein



CAS Registry Number: 5945-50-6

Molecular Formula: C<sub>16</sub>H<sub>22</sub>O<sub>11</sub>

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<sub>2</sub>O (H<sub>2</sub>O)

Melting Point: Mp 175 dec.°

Optical Rotation: [α]<sub>D</sub><sup>18</sup> −127.7 (H<sub>2</sub>O)

>>Derivative: Me ester

Synonym(s): Galioside

CAS Registry Number: 54712-59-3

Molecular Formula: C<sub>17</sub>H<sub>24</sub>O<sub>11</sub>

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: [α]<sub>D</sub> −86.2 (MeOH)

Solubility: BERDY SOL: Poorly sol. hexane

UV: [neutral] λ<sub>max</sub> 189 (); 242 () (H<sub>2</sub>O) (Berdy)

>>Derivative: 10-Ac, Me ester

Synonym(s): Galioside 10-acetate

Molecular Formula: C<sub>19</sub>H<sub>26</sub>O<sub>12</sub>

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: [α]<sub>D</sub> −63.6 (MeOH)

>>Derivative: Me ester, penta-Ac

Physical Description: Cryst.

Melting Point: Mp 150-151° (147-148°)

Optical Rotation: [α]<sub>D</sub><sup>18</sup> −76.2 (EtOH)

>>Derivative: 10-Benzoyl, Me ester

Synonym(s): Galioside 10-benzoate

Molecular Formula: C<sub>24</sub>H<sub>28</sub>O<sub>12</sub>

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: [α]<sub>D</sub><sup>23</sup> −45 (c, 0.6 in MeOH)

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

Synonym(s): Vaccinoside