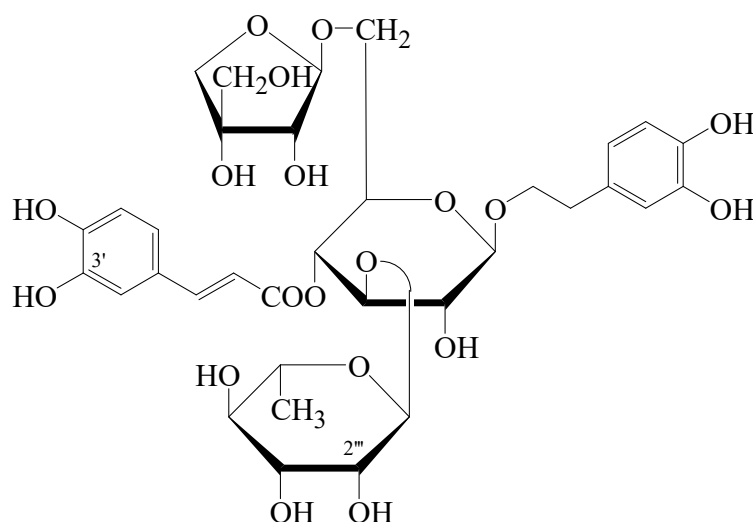




>>Entry Name: Forsythoside B



CAS Registry Number: 81525-13-5

Molecular Formula: C₃₄H₄₄O₁₉

Molecular Weight: 756.71

Accurate Mass: 756.247685

Percentage Composition: C 53.97%; H 5.86%; O 40.17%

Biological Source: Isol. from the stems of *Phtheirospermum japonicum* and *Forsythia viridissima*

Use/Importance: Exhibits antibacterial activity against *Staphylococcus aureus*

Optical Rotation: [α]_D²⁶ -67.2 (c, 1.37 in MeOH). [α]_D -93 (MeOH)

Solubility: BERDY SOL: Poorly sol. hexane

UV: [neutral] $\lambda_{\max}$ 291 (ϵ 10680); 333 (ϵ 14400) (MeOH) (Berdy)

Other Data: Air-sensitive

>>Derivative: 3',3'',4',4''-Tetra-Me

Molecular Formula: C₃₈H₅₂O₁₉

Molecular Weight: 812.817

Percentage Composition: C 56.15%; H 6.45%; O 37.40%

Optical Rotation: [α]_D -91.2 (MeOH)

>>Derivative: 3'-Me ether

Synonym(s): Alyssonoside

CAS Registry Number: 142674-76-8

Molecular Formula: C₃₅H₄₆O₁₉

Molecular Weight: 770.737

Accurate Mass: 770.263335

Percentage Composition: C 54.54%; H 6.02%; O 39.44%

Biological Source: Constit. of *Marrubium allysson*

Physical Description: Amorph. powder

>>Derivative: 2'''-O- α -L-Arabinopyranosyl

Synonym(s): Ballotetroside

CAS Registry Number: 188441-89-6

Molecular Formula: C₃₉H₅₂O₂₃

Molecular Weight: 888.826

Accurate Mass: 888.289945

Percentage Composition: C 52.70%; H 5.90%; O 41.40%

Biological Source: Constit. of *Ballota nigra*

Physical Description: Amorph. powder

Optical Rotation: [α]_D²⁰ -33 (c, 0.9 in MeOH)

UV: [neutral] $\lambda_{\max}$ 203 (); 222 (sh) (); 244 (sh) (); 291 (); 330 () (MeOH)

References:

Endo, K. *et al.*, *Heterocycles*, 1982, **19**, 261, (*isol*, *pmr*, *cmr*)

Takeda, Y., *J. Nat. Prod.*, 1988, **51**, 180

Calis, I. *et al.*, *Phytochemistry*, 1992, **31**, 3624, (*Alyssonoside*)

Seidel, V. *et al.*, *Phytochemistry*, 1997, **44**, 691, (*Ballotetroside*)