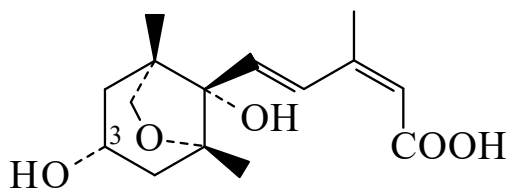




>>Entry Name: Dihydrophaseic acid

Synonym(s): 5-(3,8-Dihydroxy-1,5-dimethyl-6-oxabicyclo[3.2.1]oct-8-yl)-3-methyl-2,4-pentadienoic acid, 9Cl



CAS Registry Number: 41756-77-8

Related CAS Registry Numbers(s): 60102-40-1 128821-82-9 128821-83-0 128821-85-2 128821-86-3

Molecular Formula: C₁₅H₂₂O₅

Molecular Weight: 282.336

Accurate Mass: 282.146725

Percentage Composition: C 63.81%; H 7.85%; O 28.33%

Biological Source: Constit. of *Echinocystitis macrocarpa*, *Phaseolus vulgaris*, *Sectium edule* and other plant spp.

Use/Importance: Metab. of Absciscic acid [JXK50-K](#) acid in various plants

Physical Description: Amorph.

>>Derivative: Me ester

Molecular Formula: C₁₆H₂₄O₅

Molecular Weight: 296.363

Accurate Mass: 296.162375

Percentage Composition: C 64.84%; H 8.16%; O 26.99%

Biological Source: Isol. from *Phaseolus vulgaris* seeds

Other Data: λ_{max} 267 nm (log ε 1.99) (MeOH)

>>Derivative: 3-O-β-D-Glucopyranoside

CAS Registry Number: 78914-56-4

Molecular Formula: C₂₁H₃₂O₁₀

Molecular Weight: 444.478

Accurate Mass: 444.19955

Percentage Composition: C 56.75%; H 7.26%; O 36.00%

Biological Source: Constit. of *Juniperus phoenicea*

UV: [neutral] λ_{max} 268 () (MeOH)

>>Derivative: 3-Epimer

Synonym(s): Epidihydrophaseic acid

CAS Registry Number: 60102-38-7

Molecular Formula: C₁₅H₂₂O₅

Molecular Weight: 282.336

Accurate Mass: 282.146725

Percentage Composition: C 63.81%; H 7.85%; O 28.33%

Biological Source: Isol. from *Phaseolus vulgaris*

Physical Description: Amorph.

References:

- Takasugi, M. *et al.*, *Chem. Lett.*, 1973, 245, (*isol*)
Walton, D.C. *et al.*, *Planta*, 1973, **112**, 87, (*isol, ester*)
Beeley, L.J. *et al.*, *Phytochemistry*, 1975, **14**, 779, (*occur*)
Milborrow, B.V., *Phytochemistry*, 1975, **14**, 1045, (*abs config*)
Zeevaart, J.A.D. *et al.*, *Phytochemistry*, 1976, **15**, 493, (*Epidihydrophaseic acid*)
Takeda, N. *et al.*, *Agric. Biol. Chem.*, 1984, **48**, 685, (*ms*)
Champavier, Y. *et al.*, *Phytochemistry*, 1999, **50**, 1219-1223, (*3-glucoside*)