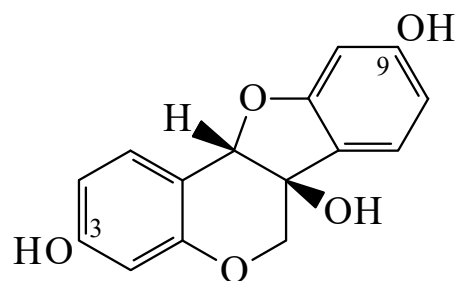




>>Entry Name: 3,6a,9-Trihydroxypterocarpan

ENTRY UNDER REVIEW

Synonym(s): 6*H*-Benzofuro[3,2-*c*][1]benzopyran-3,6*a*,9(11*aH*)-triol, 9Cl. **Glycinol**



Absolute
configuration

CAS Registry Number: 69393-95-9

Molecular Formula: C₁₅H₁₂O₅

Molecular Weight: 272.257

Accurate Mass: 272.068475

Percentage Composition: C 66.17%; H 4.44%; O 29.38%

UV: [neutral] λ_{max} 282 (); 287 () (no solvent reported)

>>Derivative: 3-Me ether

Synonym(s): 6*a*,9-Dihydroxy-3-methoxypterocarpan. **6*a*-Hydroxyisomedicarpin**

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Source: Isol. from fungus-infected leaves of *Melilotus alba*

>>Derivative: 9-Me ether

Synonym(s): 3,6*a*-Dihydroxy-9-methoxypterocarpan. **6*a*-Hydroxymedicarpin**

CAS Registry Number: 61135-92-0

Molecular Formula: C₁₆H₁₄O₅

Molecular Weight: 286.284

Accurate Mass: 286.084125

Percentage Composition: C 67.13%; H 4.93%; O 27.94%

Biological Source: Isol. from fungus-infected leaves of *Melilotus alba*

Optical Rotation: [α]_D²⁵ -209 (c, 0.07 in CHCl₃)

>>Derivative: 3,9-Di-Me ether

Synonym(s): 6*a*-Hydroxy-3,9-dimethoxypterocarpan. **Variabilin†**. Homopisatin

CAS Registry Number: 3187-52-8

Molecular Formula: C₁₇H₁₆O₅

Molecular Weight: 300.31

Accurate Mass: 300.099775

Percentage Composition: C 67.99%; H 5.37%; O 26.64%

Biological Source: Isol. from wood of *Dalbergia variabilis*. Stress metab. from leaves or cotyledons of *Caragana* spp., *Lathyrus* spp., *Lens culinaris*, *Lens nigricans*, *Parochetus communis* and *Trifolium pratense*

UV: [neutral] λ_{max} 228 (ε 10600); 286 (ε 4250) (EtOH) (Berdy)

References:

- Ingham, J.L., *Phytochemistry*, 1976, **15**, 1489, (*isol*)
Kurosawa, K. *et al.*, *Phytochemistry*, 1978, **17**, 1417, (*Variabilin*)
Ingham, J.L., *Z. Naturforsch., C*, 1980, **35**, 384, (*isol*)
Weinstein, L.I. *et al.*, *Plant Physiol.*, 1981, **68**, 358, (*isol*)
Ingham, J.L., *Prog. Chem. Org. Nat. Prod.*, 1983, **43**, 1, (*occur*)
Macias, F.A. *et al.*, *Phytochemistry*, 1999, **50**, 35-46, (*6a-Hydroxymedicarpin*)