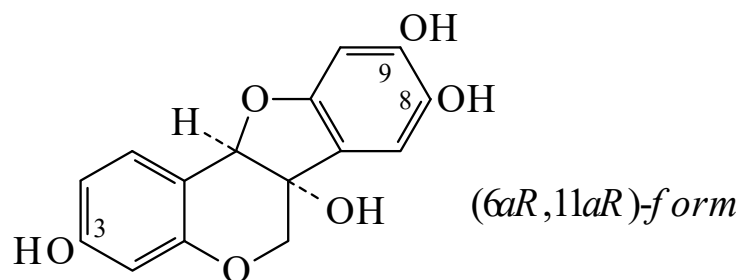




>>Entry Name: 3,6a,8,9-Tetrahydroxypterocarpan



Related CAS Registry Numbers(s): 61218-44-8 73068-87-8

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>Variant: (6aR,11aR)-form

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>Derivative: 8,9-Methylene ether

Synonym(s): 3,6a-Dihydroxy-8,9-methylenedioxypterocarpan. **6a-Hydroxymaackiain**. 6a-Hydroxyinermin

CAS Registry Number: 14602-93-8

Molecular Formula: C₁₆H₁₂O₆

Molecular Weight: 300.267

Accurate Mass: 300.06339

Percentage Composition: C 64.00%; H 4.03%; O 31.97%

Biological Source: Isol. from leaves of *Trifolium pratense* as a phytoalexin; metab. of Pisatin prod. by *Fusarium solani*

Melting Point: Mp 178-181 dec.°

Optical Rotation: [α]_D²¹+337 (c, 0.944 in EtOH)

>>Derivative: 3-Me, 8,9-methylene ether

Synonym(s): 6a-Hydroxy-3-methoxy-8,9-methylenedioxypterocarpan. **Pisatin**

CAS Registry Number: 469-01-2

Extra CAS Registry Numbers(s): 20186-22-5

Molecular Formula: C₁₇H₁₄O₆

Molecular Weight: 314.294

Accurate Mass: 314.07904

Percentage Composition: C 64.97%; H 4.49%; O 30.54%

Biological Source: Stress metab. from *Caragana* spp., *Lathyrus* spp., *Pisum fulvum*, *Pisum sativum*, *Tephrosia bidwilli* and *Trifolium pratense*

Use/Importance: Phytoalexin

Physical Description: Cryst. (EtOH or C₆H₆)

Melting Point: Mp 61°

Optical Rotation: [α]_D²⁰+280 (c, 0.11 in EtOH)

Solubility: BERDY SOL: Sol. MeOH, CCl₄, CS₂, Et₂O; fairly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 213 (ϵ 56230); 280 (ϵ 4170); 282 (); 286 (ϵ 4800); 287 (); 309 (ϵ 7244); 310 () (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 286 (ϵ 4800); 309 (ϵ 7250) (EtOH) (Berdy)

>>Variant: ($\pm$)-form

Molecular Formula: C₁₅H₁₂O₆

Molecular Weight: 288.256

Accurate Mass: 288.06339

Percentage Composition: C 62.50%; H 4.20%; O 33.30%

>>Derivative: 3-Me, 8,9-methylene ether

Melting Point: Mp 188-190°

References: