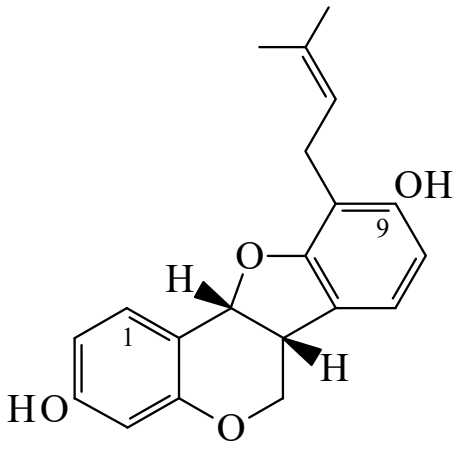
>>**Entry Name: 3,9-Dihydroxy-10-prenylpterocarpan**
ENTRY UNDER REVIEW
Synonym(s): 6*a*,11*a*-Dihydro-10-(3-methyl-2-butenyl)-6*H*-benzofuro[3,2-*c*][1]benzopyran-3,9-diol, 9CI. **Phaseollidin**



Absolute conf guration

CAS Registry Number: 37831-70-2
Type of Compound Code(s): VK3400 WA2800 WI2200

Molecular Formula: $C_{20}H_{20}O_4$
Molecular Weight: 324.376
Accurate Mass: 324.13616
Percentage Composition: C 74.06%; H 6.21%; O 19.73%
Biological Source: Isol. from kidney bean *Phaseolus vulgaris*, mung bean *Phaseolus aureus*, rice bean *Phaseolus calcaratus*, cowpea *Dolichos biflorus*, and hyacinth bean *Lablab niger*
Use/Importance: Antifungal antibiotic. Green bean phytoalexin
Melting Point: Mp 67-69°
Solubility: BERDY SOL: Sol. MeOH, Et_2O; fairly sol. hexane; poorly sol. H_2O
UV: [neutral] λ_{max} 208 (ε 39800); 237 (sh) (ε 19100); 281 (ε 7940); 286 (ε 8910) (EtOH) (Derep) [neutral] λ_{max} 214 (); 281 (); 287 () (MeOH) (Berdy) [neutral] λ_{max} 208 (ε 39800); 281 (ε 7940); 286 (ε 8900) (EtOH) (Berdy) [base] λ_{max} 230 (); 248 (); 289 (); 291 () (EtOH-NaOH) (Berdy)

>>**Derivative:** 9-Me ether
Synonym(s): 3-Hydroxy-9-methoxy-10-prenylpterocarpan. **Sandwicensin**

CAS Registry Number: 74515-46-1
Type of Compound Code(s): VK3400
Molecular Formula: $C_{21}H_{22}O_4$
Molecular Weight: 338.402
Accurate Mass: 338.15181
Percentage Composition: C 74.54%; H 6.55%; O 18.91%
Biological Source: Isol. from leaves of *Erythrina sandwicensis*
Optical Rotation: $[\alpha]_D$ –190 (c, ca. 0.02 in MeOH)
UV: [neutral] λ_{max} 214 (ε 37100); 281 (ε 5890); 287 (ε 630) (MeOH) (Berdy) [neutral] λ_{max} 211 (); 281 (); 287 () (EtOH) (Berdy) [base] λ_{max} 212 (); 252 (); 290 () (EtOH-NaOH) (Berdy) [base] λ_{max} 214 (); 251 (); 289 () (MeOH-NAOH) (Berdy)

References:

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Perrin, D.R. *et al.*, *Aust. J. Chem.*, 1974, **27**, 1607, *(struct)*
Ingham, J.L., *Z. Naturforsch., C*, 1980, **35**, 384, *(Sandwicensin)*
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