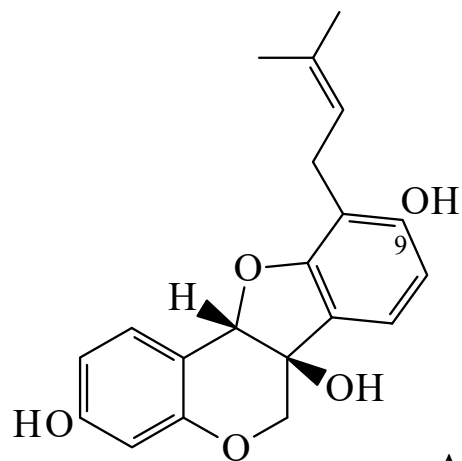




>>Entry Name: **3,6a,9-Trihydroxy-10-prenylpterocarpan**

Synonym(s): 10-(3-Methyl-2-butenyl)-6*H*-benzofuro[3,2-*c*][1]benzopyran-3,6,9(11*aH*)-triol, 9Cl. **Sandwicarpin.** 6*a*-Hydroxyphaseollidin



Absolute configuration

CAS Registry Number: 74515-45-0

Molecular Formula: C₂₀H₂₀O₅

Molecular Weight: 340.375

Accurate Mass: 340.131075

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Biological Source: Isol. from leaves of *Erythrina sandwicensis*

Use/Importance: Phytoalexin

Optical Rotation: [α]_D -278 (MeOH)

>>Derivative: 9-Me ether

Synonym(s): 3,6*a*-Dihydroxy-9-methoxy-10-prenylpterocarpan. **Cristacarpin.** Erythrabyssin I

CAS Registry Number: 74515-47-2

Molecular Formula: C₂₁H₂₂O₅

Molecular Weight: 354.402

Accurate Mass: 354.146725

Percentage Composition: C 71.17%; H 6.26%; O 22.57%

Biological Source: Isol. from *Erythrina abyssinica*, *Erythrina crista-galli*, *Erythrina sandwicensis* and *Psophocarpus tetragonolobus*

Use/Importance: Phytoalexin

Optical Rotation: [α]_D²⁰ -250 (c, 0.2 in MeOH)

References:

Ingham, J.L. *et al.*, *Phytochemistry*, 1980, **19**, 1203, (*isol, uv, ms, struct, abs config*)

Ingham, J.L., *Z. Naturforsch., C*, 1980, **35**, 384, (*Sandwicarpin*)

Kamat, V.S. *et al.*, *Heterocycles*, 1981, **15**, 1163, (*isol, uv, cd, abs config*)

Fomum, Z.T. *et al.*, *Phytochemistry*, 1986, **25**, 757, (*isol*)

Dagne, E. *et al.*, *J. Nat. Prod.*, 1993, **56**, 1831, (*Cristacarpin*)

Tanaka, H. *et al.*, *Phytochemistry*, 1996, **42**, 1473, (*Cristacarpin*)