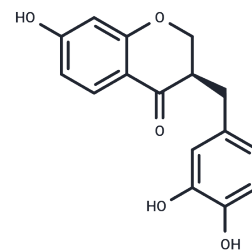


3-Deoxysappanone B

Chemical Properties

CAS No. :	113122-54-6
Formula:	C ₁₆ H ₁₄ O ₅
Molecular Weight:	286.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	3-Deoxysappanone B has vasorelaxation effects, it can mediate endothelium-independent vasodilator action in rat thoracic aortic rings.
Targets(IC50)	Others,p38 MAPK
In vitro	The tension of rat thoracic aorta rings was used to evaluated the vasorelaxant activities of four homoisoflavonoids, brazlin (1), (E)-3-(3,4-dihydroxybenzylidene)-7-hydroxychroman-4-one (2), sappanone B (3), 3-Deoxysappanone B (4). Cumulative addition of homoisoflavonoids (2, 3 and 4) (50-1000 micromol x L ⁻¹) exhibited an acute relaxation either in endothelium-intact or endothelium-denuded rings in a concentration-dependent manner. However, this relaxation was significantly inhibited in endothelium-denuded condition and in the presence of endothelial nitric oxide synthase (eNOS) inhibitor, N(W)-nitro-L-arginine methyl ester (L-NNA, 100 micromol x L ⁻¹), and a soluble guanylate cylcase (sGC) inhibitor, methylene blue (MB, 10 micromol x L ⁻¹) when addition of variation homoisoflavonoids brazlin (1) (50-1000 micromol x L ⁻¹).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4931 mL	17.4654 mL	34.9308 mL
5 mM	0.6986 mL	3.4931 mL	6.9862 mL
10 mM	0.3493 mL	1.7465 mL	3.4931 mL
50 mM	0.0699 mL	0.3493 mL	0.6986 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Vasorelaxation effects of homoisoflavonoids from Caesalpinia sappan in rat thoracic aortic rings. Zhongguo Zhong Yao Za Zhi. 2009 Mar;34(6):731-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481