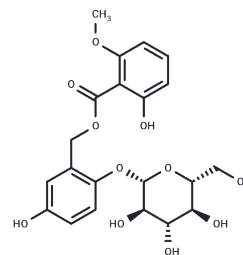


Curculigoside B

Chemical Properties

CAS No. :	143601-09-6
Formula:	C ₂₁ H ₂₄ O ₁₁
Molecular Weight:	452.41
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Curculigoside B is a naturally occurring phenolic compound traditionally used in Asian to protect against osteoporosis and maintaining skeletal integrity. Curculigoside B exerts antioxidant, anti-aging, immunomodulatory, and anti-inflammatory functions, while effectively preventing pathological bone loss, establishing this compound as a validated osteoprotective therapeutic candidate of increasing interest in research.
Targets(IC50)	Antioxidant, Immunology/Inflammation related
In vitro	Six phenolic compounds were isolated from Curculigo orchids, including 2,6-dimethoxy benzoic acid (1), Curculigoside A (2), Curculigoside B (3), Curculigoside A (4), Cucuriginine D (5), and 3,3',5,5'-tetramethoxy-7,9':7',9'-diepoxy lignan-4,4'-di-O-beta-D-glucopyranoside (6). All six compounds promoted osteoblast proliferation, while compounds (1), (2), and (4) also slightly enhanced osteoblast ALP activity. Compounds (1), (2), (3), (6), and the ethanol extract reduced bone resorption pit area, osteoclast formation, and TRAP activity [1].

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2104 mL	11.0519 mL	22.1038 mL
5 mM	0.4421 mL	2.2104 mL	4.4208 mL
10 mM	0.221 mL	1.1052 mL	2.2104 mL
50 mM	0.0442 mL	0.221 mL	0.4421 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

Antiosteoporotic activity of phenolic compounds from *Curculigo orchioides*. *Phytomedicine*. 2009 Sep;16(9):874-81.

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