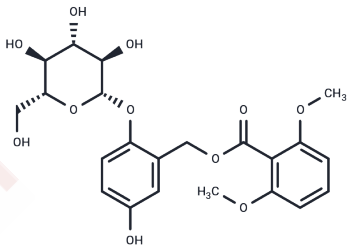
Data Sheet (Cat.No.T6S1966)

TargetMol

Curculigoside

Chemical Properties



CAS No. : 85643-19-2

Formula: C22H26O11

Molecular Weight: 466.44

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	1. Curculigoside (Curculigoside A) can prevent bone loss , improve osteogenesis and inhibit osteoclastogenesis of hAFSCs, suggesting its potential use to regulate hAFSC osteogenic differentiation for treating bone disorders. 2. Curculigoside can promote calcium deposition and increase the levels of ALP and Runx2 in osteoblasts under oxidative stress via anti-oxidative character. 3. Curculigoside possesses potent antioxidant properties against oxidative stress insults. can protect endothelial cells against oxidative injury induced by H2O2, suggesting that this compound may constitute a promising intervention against cardiovascular disorders.
Targets(IC50)	Antioxidant,NF-κB,STAT,JAK

Solubility Information

Solubility	DMSO: 84 mg/mL (180.09 mM),Sonication is recommended. Ethanol: 84 mg/mL (180.09 mM),Sonication is recommended. Pyridine, Methanol, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.07 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1439 mL	10.7195 mL	21.439 mL
5 mM	0.4288 mL	2.1439 mL	4.2878 mL
10 mM	0.2144 mL	1.0719 mL	2.1439 mL
50 mM	0.0429 mL	0.2144 mL	0.4288 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

Liu M , Li Y , Yang S T . Curculigoside Improves Osteogenesis of Human Amniotic Fluid-Derived Stem Cells[J]. Stem Cells and Development, 2014, 23(2):146-154.