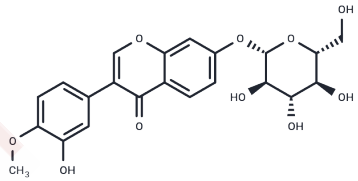
Data Sheet (Cat.No.T3388)

TargetMol

Calycosin-7-O-β-D-glucoside

Chemical Properties



CAS No. : 20633-67-4

Formula: C22H22O10

Molecular Weight: 446.40

Storage: Keep away from direct sunlight,Keep away from moisture
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	Calycosin-7-O-β-D-glucoside (calycosin-7-O-beta-D-glucopyranoside) exhibits a protective effect on rat hepatocytes, inhibits COX-2 activity, has antimicrobial properties, and is a promising anti-HIV agent. Additionally, it demonstrates scavenging activity against DPPH radicals and superoxide anions, alleviates osteoarthritis, and increases brain cell membrane fluidity in ischemia-reperfusion rats.
Targets(IC50)	MMP,Reactive Oxygen Species,ROS

Solubility Information

Solubility	DMSO: 50.00 mg/mL (112.01 mM),Sonication is recommended. H2O: Insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.00 mg/mL (4.48 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	2.2401 mL	11.2007 mL	22.4014 mL
5 mM	0.448 mL	2.2401 mL	4.4803 mL
10 mM	0.224 mL	1.1201 mL	2.2401 mL
50 mM	0.0448 mL	0.224 mL	0.448 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

Fu S, et al. J Ethnopharmacol. 2014 Aug 8;155(1):692-701.
Huang B, Lin B, Zheng H, et al.Discovery of natural products as influenza neuraminidase inhibitors: in silico screening, in vitro validation, and molecular dynamic simulation studies.Molecular Diversity.2025: 1-17.
J Chromatogr B Analyt Technol Biomed Life Sci. 2014 Jul 15;963:16-23.