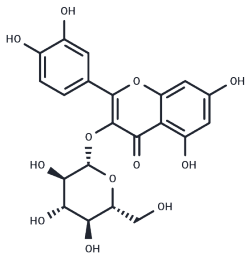
Data Sheet (Cat.No.T5S0754)

TargetMol

Isoquercetin

Chemical Properties



CAS No. : 482-35-9

Formula: C21H20O12

Molecular Weight: 464.38

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. Isoquercetin (3-Glucosylquercetin) is a potential stimulator of bone mineralization used for prophylaxis of osteoporotic disorders. 2. Isoquercetin may be as a potential therapeutic agent against neurodegeneration in Parkinson's disease. 3. Isoquercetin is an inhibitor of Wnt/β-catenin and may be as a potential novel anti-tumoral agent, such as against human pancreati,liver cancer related to opioid receptors and to the activation of the mitogen-activated protein kinase (MAPK) signalling pathway. .
Targets(IC50)	NF-κB,NO Synthase,Wnt/beta-catenin

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble) DMSO: 127 mg/mL (273.48 mM),Sonication is recommended. (< 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 (7.11 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	2.1534 mL	10.767 mL	21.5341 mL
5 mM	0.4307 mL	2.1534 mL	4.3068 mL
10 mM	0.2153 mL	1.0767 mL	2.1534 mL
50 mM	0.0431 mL	0.2153 mL	0.4307 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

Isoquercitrin and polyphosphate co-enhance mineralization of human osteoblast-like SaOS-2 cells via separate activation of two RUNX2 cofactors AFT6 and Ets1[J]. Biochemical Pharmacology, 2014, 89(3):413-421.
Kim K Y, Kang Y M, Lee A, et al.Hydroethanolic Extract of Lepidium apetalum Willdenow Alleviates Dextran Sulfate Sodium-Induced Colitis by Enhancing Intestinal Barrier Integrity and Inhibiting Oxidative Stress and Inflammasome Activation.Antioxidants.2024, 13(7): 795.