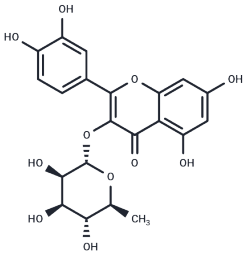
Data Sheet (Cat.No.T2871)

TargetMol

Quercitrin

Chemical Properties



CAS No. : 522-12-3

Formula: C21H20O11

Molecular Weight: 448.38

Storage: Keep away from moisture,Keep away from direct sunlight
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	Quercitrin (3-rhamnosyl quercetin) is a plant-derived flavonoid compound, displays antioxidant and anti-inflammatory activities. Quercitrin can be found in a number of food items such as garden tomato (var.), German camomile, endive, and kiwi, which makes quercitrin a potential biomarker for the consumption of these food products.
Targets(IC50)	Apoptosis,Reactive Oxygen Species,Autophagy,ROS,S6 Kinase

Solubility Information

Solubility	DMSO: 260 mg/mL (579.87 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: 5 mg/mL (11.15 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	2.2303 mL	11.1513 mL	22.3025 mL
5 mM	0.4461 mL	2.2303 mL	4.4605 mL
10 mM	0.223 mL	1.1151 mL	2.2303 mL
50 mM	0.0446 mL	0.223 mL	0.4461 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

Ma JQ, et al. Food Funct. 2015 Oct 28.
Shim K S, Hwang Y H, Jang S A, et al. Water Extract of Lysimachia christinae Inhibits Trabecular Bone Loss and Fat Accumulation in Ovariectomized Mice. Nutrients. 2020, 12(7): 1927
Shim K S, Hwang Y H, Jang S A, et al. . Water Extract of Lysimachia christinae Inhibits Trabecular Bone Loss and Fat Accumulation in Ovariectomized Mice[J]. Nutrients. 2020, 12(7): 1927.
Liu Y, Han Y, Liu Y, et al.Xanthoceras sorbifolium leaves alleviate hyperuricemic nephropathy by inhibiting the PI3K/AKT signaling pathway to regulate uric acid transport.Journal of Ethnopharmacology.2024: 117946.