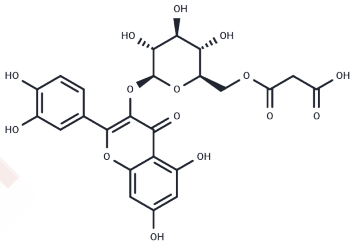
Data Sheet (Cat.No.T123838)

TargetMol

Quercetin 3-O-malonylglucoside

Chemical Properties



CAS No. : 96862-01-0

Formula: C24H22O15

Molecular Weight: 550.42

Storage: 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	Quercetin 3-O-malonylglucoside is a quercetin O -glucoside and flavonoid, a natural metabolite with potential anti-inflammatory and antioxidant activity.
Targets(IC50)	Others
In vitro	Quercetin 3-O-malonylglucoside (1-1000 μM) exhibits excellent antioxidant capacity in a cell-free environment and is unable to effectively protect mitochondria from lipid peroxidation, but can prevent protein thiol consumption at lower concentrations.[2]

Solubility Information

Solubility	DMSO: 30 mg/mL (54.5 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: 1 mg/mL (1.82 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	1.8168 mL	9.084 mL	18.1679 mL
5 mM	0.3634 mL	1.8168 mL	3.6336 mL
10 mM	0.1817 mL	0.9084 mL	1.8168 mL
50 mM	0.0363 mL	0.1817 mL	0.3634 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

TakuyaKatsube, et al. Antioxidant flavonol glycosides in mulberry (Morus alba L.) leaves isolated based on LDL antioxidant activity. Food Chemistry Volume 97, Issue 1, July 2006, Pages 25-31.

Panat N A, et al. Antioxidant Profiling of C3 Quercetin Glycosides: Quercitrin, Quercetin 3-β-D-glucoside and Quercetin 3-O-(6” -O-malonyl)-β-Dglucoside in cell free environment. Free Radicals and Antioxidants, 2015, 5(2): 90-100.