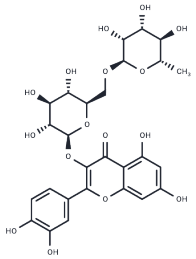
Data Sheet (Cat.No.T0795)

TargetMol

Rutin

Chemical Properties



CAS No. : 153-18-4

Formula: C27H30O16

Molecular Weight: 610.52

Storage: Store at low temperature,Store under nitrogen
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	Rutin (Quercetin 3-O-rutinoside), a flavonoid, has a variety of biological activities including antiallergic, anti-inflammatory, antiproliferative, and anticarcinogenic properties.
Targets(IC50)	Apoptosis,Beta Amyloid,Endogenous Metabolite,Autophagy,Prostaglandin Receptor
In vitro	The intraperitoneal injection in mice has determined the median lethal dose (LD50) of Rutin to be 650 mg/kg.
In vivo	Rutin inhibits platelet aggregation and diminishes capillary permeability, thinning the blood and enhancing circulation. Consequently, Rutin may prevent blood clot formation and is utilized in treating heart disease and stroke.

Solubility Information

Solubility	DMSO: 235 mg/mL (384.92 mM),Sonication is recommended. Ethanol: 2 mg/mL (3.28 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: 12.2 mg/mL (19.98 mM),Solution. *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	1.6379 mL	8.1897 mL	16.3795 mL
5 mM	0.3276 mL	1.6379 mL	3.2759 mL
10 mM	0.1638 mL	0.819 mL	1.6379 mL
50 mM	0.0328 mL	0.1638 mL	0.3276 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

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