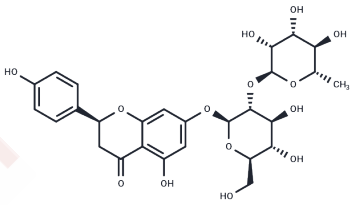
Data Sheet (Cat.No.T0595)

TargetMol

Naringin

Chemical Properties



CAS No. : 10236-47-2

Formula: C27H32O14

Molecular Weight: 580.53

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Naringin (Naringoside), a flavanone glycoside, exerts various of pharmacological effects such as blood lipid lowering, antioxidant activity, anticancer activity, and inhibition of cytochrome P450 enzymes.
Targets(IC50)	Mitophagy,Endogenous Metabolite,Autophagy,Cytochromes P450
In vivo	The Lethal Dose 50 for mice:1650 mg/kg.
Cell Research	HBZY-1 cells are plated into 96-well plates and pretreated with various concentrations (1, 5, 10, 25, 50, 100 μM) of naringin for 2 h. Then cells are treated with 30 mM glucose for 24 h. The control group is added sterile normal saline in the same volume. After treatment, all the wells are incubated with 20 μL of 5 mg/ml MTT for 4 h at 37°C. Subsequently, 100 μL of DMSO are used to dissolve the formed formazan crystals after removal of the supernatant. The result is recorded at 490 nm on a microplate reader[1].

Solubility Information

Solubility	Ethanol: 1 mg/mL (1.72 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (86.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7226 mL	8.6128 mL	17.2256 mL
5 mM	0.3445 mL	1.7226 mL	3.4451 mL
10 mM	0.1723 mL	0.8613 mL	1.7226 mL
50 mM	0.0345 mL	0.1723 mL	0.3445 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.

Reference

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