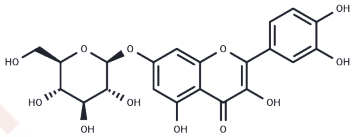
Data Sheet (Cat.No.TN1041)

TargetMol

Quercimeritrin

Chemical Properties



CAS No. : 491-50-9

Formula: C21H20O12

Molecular Weight: 464.38

Storage: Store at low temperature,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	Quercimeritrin (Quercetin-7-O-beta-D-glucopyranoside) has antibacterial activity, it shows promising activity against Staphylococcus aureus.
Targets(IC50)	Anti-infection,NO Synthase,COX
In vitro	Phytochemical investigation of these leaves led to the isolation of the known substances quercetin, Quercetin-7-O-beta-D-glucopyranoside, quercetin-3-O-beta-D-glucopyranoside, quercetin-3-O-beta-D-galactopyranoside, quercetin-3-O-alpha-L-arabinopyranoside, amentoflavone, brevifolin carboxylic acid, gallic acid, and methyl gallate from the methanolic extract, and stigmasterol, campesterol, sitosterol, lupeol, friedelan-3-ol, and friedelan-3-one from the chloroform extract[1]

Solubility Information

Solubility	DMSO: 150 mg/mL (323.01 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: 10 mg/mL (21.53 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (21.53 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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

Phenolic compounds in leaves of Alchornea triplinervia: anatomical localization, mutagenicity, and antibacterial activity.Nat Prod Commun. 2010 Aug;5(8):1225-32.