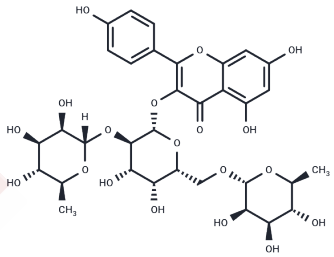
Data Sheet (Cat.No.TN1917)

TargetMol

Mauritianin

Chemical Properties



CAS No. : 109008-28-8

Formula: C33H40O19

Molecular Weight: 740.66

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	Mauritianin, a kaempferol glycoside isolated from the flowers and leaves of Acalypha indica, is a topoisomerase I inhibitor with cytoprotective activity.
Targets(IC50)	Topoisomerase
In vitro	Bioassay-guided fractionation resulted in the isolation of Mauritianin as a new topoisomerase I inhibitor.[1] After 14 weeks, Mauritianin antagonized the flavonol glycosides on cell-mediated immunosuppression in the two-stage carcinogenesis in terms of initiation.[3]

Solubility Information

Solubility	DMSO: 90 mg/mL (121.51 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: 3.3 mg/mL (4.46 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	1.3501 mL	6.7507 mL	13.5015 mL
5 mM	0.270 mL	1.3501 mL	2.7003 mL
10 mM	0.135 mL	0.6751 mL	1.3501 mL
50 mM	0.027 mL	0.135 mL	0.270 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 J, et al. DNA topoisomerase I inhibitors from Rinorea anguifera.Bioorg Med Chem Lett. 2005 ; 15(3):813-816.
Nahrstedt A, et al. Flavonoids from Acalypha indica. Fitoterapia. 2006 ; 77(6):484-486.
Yasukawa K, et al. Inhibitory effects of flavonol glycosides on 12-O-tetradecanoylphorbol-13-acetate-induced tumor promotion. Chem Pharm Bull (Tokyo). 1990 ; 38(3):774-776.

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