

Naringenin triacetate

Chemical Properties

CAS No. : 3682-04-0

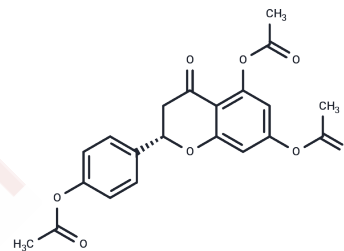
Formula: C₂₁H₁₈O₈

Molecular Weight: 398.36

Keep away from direct sunlight

Storage: 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	Naringenin Triacetate is a derivative of the flavonoid Naringenin with improved lipid solubility and bioavailability, and good binding affinity for the Nac binding site of the structural domain of the BRD4 BET family protein BD1 (first bromodomain).
Targets(IC50)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 80 mg/mL (200.82 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 (8.28 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5103 mL	12.5515 mL	25.1029 mL
5 mM	0.5021 mL	2.5103 mL	5.0206 mL
10 mM	0.251 mL	1.2551 mL	2.5103 mL
50 mM	0.0502 mL	0.251 mL	0.5021 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

Karthik Dhananjayan, Molecular Docking Study Characterization of Rare Flavonoids at the Nac-Binding Site of the First Bromodomain of BRD4 (BRD4 BD1). Journal of Cancer Research. Volume 2015.

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