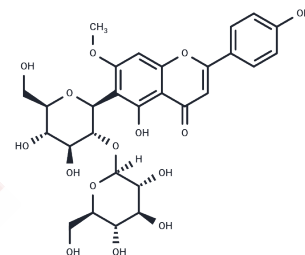


Spinosin

Chemical Properties

CAS No. :	72063-39-9
Formula:	C ₂₈ H ₃₂ O ₁₅
Molecular Weight:	608.54
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	1. Spinosin (Flavoayamenin) ameliorated memory impairment induced through A β O, the serotonergic neurotransmitter system, and these effects were regulated, in part, through neuroprotective activity via the anti-inflammatory effects of Spinosin. 2. Spinosin exerts anxiolytic-like effects, and its mechanism of action appears to be modulated by GABAA and 5-HT1A receptors. 3. There was a wide brain regional tissue distribution of Spinosin. The concentrations of Spinosin in corpus striatum and hippocampus were higher than that in other areas.
Targets(IC50)	Beta Amyloid,Others

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 91 mg/mL (149.54 mM),Sonication is recommended. Pyridine, Methanol, etc.: Soluble, (< 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 (5.42 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	1.6433 mL	8.2164 mL	16.4328 mL
5 mM	0.3287 mL	1.6433 mL	3.2866 mL
10 mM	0.1643 mL	0.8216 mL	1.6433 mL
50 mM	0.0329 mL	0.1643 mL	0.3287 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

Jung I H , Lee H E , Park S J , et al. Ameliorating effect of spinosin, a C-glycoside flavonoid, on scopolamine-induced memory impairment in mice[J]. Pharmacology Biochemistry and Behavior, 2014, 120:88-94.

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