

Nodakenin

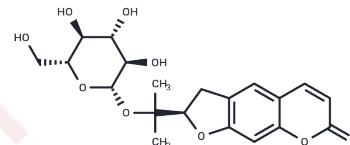
Chemical Properties

CAS No. : 495-31-8

Formula: C₂₀H₂₄O₉

Molecular Weight: 408.40

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	Nodakenin ((+)-Marmesinin) is a compound with anti-allergic and anti-inflammatory activities.
Targets(IC50)	Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 50.00 mg/mL (122.43 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: 2.00 mg/mL (4.90 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	2.4486 mL	12.2429 mL	24.4858 mL
5 mM	0.4897 mL	2.4486 mL	4.8972 mL
10 mM	0.2449 mL	1.2243 mL	2.4486 mL
50 mM	0.049 mL	0.2449 mL	0.4897 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

Park SJ, et al. Effect of nodakenin on atopic dermatitis-like skin lesions. Biosci Biotechnol Biochem. 2014;78(9): 1568-71.

Zhang H, Liang B, Sang X, et al. Discovery of Potential Inhibitors of SARS-CoV-2 Main Protease by a Transfer Learning Method. Viruses. 2023, 15(4): 891.

Xiong Y, et al. The effects of nodakenin on airway inflammation, hyper-responsiveness and remodeling in a murine model of allergic asthma. Immunopharmacol Immunotoxicol. 2014 Oct;36(5):341-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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