

Clerodendrin

Chemical Properties

CAS No. : 119738-57-7

Formula: C₂₇H₂₆O₁₇

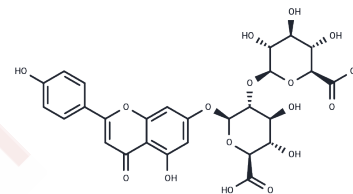
Molecular Weight: 622.49

Keep away from direct sunlight, Store at low temperature

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	Clerodendrin (Apigenin-7-O-glucuronopyranosyl(1-2)-glucuronopyranoside) is a new neodentate diterpenoid isolated from the leaves of Clerodendron trichotomm, a radish sawfly Athalia Clerodendrin is an interleukin-4 (IL-4) inhibitor and β -hexosaminidase (Hex) inhibitor.
Targets(IC50)	IL Receptor, Interleukin
In vitro	10 μ M Clerodendrin treatment for 1-3 h of propidium iodide-induced RBL-2H3 cells inhibited IL-4 mRNA expression and β -hexosaminidase release. [1]

Solubility Information

Solubility	DMSO: 40 mg/mL(64.26 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: 1 mg/mL (1.61 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	1.6065 mL	8.0323 mL	16.0645 mL
5 mM	0.3213 mL	1.6065 mL	3.2129 mL
10 mM	0.1606 mL	0.8032 mL	1.6065 mL
50 mM	0.0321 mL	0.1606 mL	0.3213 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

Young KT, et, al. Inhibition of Interleukin-4 and β -Hexosaminidase Release in RBL-2H3 Cells by Compounds Isolated from *Lobelia chinensis*. 2021,27(4):251-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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