

coniferin

Chemical Properties

CAS No. : 531-29-3

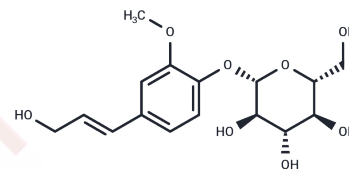
Formula: C₁₆H₂₂O₈

Molecular Weight: 342.34

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	Coniferin (Abietin) has ATP-dependent transport activity and has anti-oxidation effects. Coniferin has preferred substrates for the coniferin beta-glucosidase, the chromogenic coniferin analogue show the exclusive presence of beta-glucosidase activity in the differentiating xylem, similar to peroxidase activity.
Targets(IC50)	Antifungal, Prostaglandin Receptor

Solubility Information

Solubility	Ethanol: Soluble, DMSO: 25 mg/mL (73.03 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 mg/mL (5.84 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	2.9211 mL	14.6054 mL	29.2107 mL
5 mM	0.5842 mL	2.9211 mL	5.8421 mL
10 mM	0.2921 mL	1.4605 mL	2.9211 mL
50 mM	0.0584 mL	0.2921 mL	0.5842 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

Tsuyama T, et al. Proton-dependent coniferin transport, a common major transport event in differentiating xylem tissue of woody plants.[J]. *Plant Physiology*, 2013, 162(2):918-926.

Dharmawardhana D P, et al. A beta-glucosidase from lodgepole pine xylem specific for the lignin precursor coniferin.[J]. *Plant Physiology*, 1995, 107(2):331-339.

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