

coniferyl ferulate

Chemical Properties

CAS No. : 63644-62-2

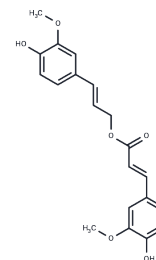
Formula: C₂₀H₂₀O₆

Molecular Weight: 356.37

Keep away from direct sunlight

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Coniferyl ferulate is a strong inhibitor of glutathione S-transferase (GST) isolated from Radix Angelicae sinensis. It shows strong inhibition of human placental GST (IC ₅₀ : 0.3 μM). It also reverses multidrug resistance and downregulates P-glycoprotein.
Targets(IC ₅₀)	CaMK,Apoptosis,Antibacterial,GST,iGluR,p38 MAPK,P-gp,ROS

Solubility Information

Solubility	DMSO: 150 mg/mL (420.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (28.06 mM),Solution. 10% DMSO+90% Corn Oil: 2 mg/mL (5.61 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	2.8061 mL	14.0304 mL	28.0607 mL
5 mM	0.5612 mL	2.8061 mL	5.6121 mL
10 mM	0.2806 mL	1.403 mL	2.8061 mL
50 mM	0.0561 mL	0.2806 mL	0.5612 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

Chen C, et al. Coniferyl Ferulate, a Strong Inhibitor of Glutathione S-Transferase Isolated from Radix Angelicae sinensis, Reverses Multidrug Resistance and Downregulates P-Glycoprotein. *Evid Based Complement Alternat Med.* 2013;2013:639083.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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