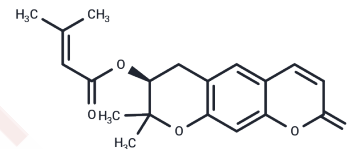


Decursin

Chemical Properties

CAS No. : 5928-25-6
 Formula: C₁₉H₂₀O₅
 Molecular Weight: 328.36
 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. Decursin (Decursinol angelate) is able to attenuate kainic acid-induced seizures and could have potential as an antiepileptic drug. 2. Decursin exhibits hepatoprotective effects , potentially by inhibiting the TGF-β1 induced NOX activation and Smad signaling. 3. Decursin has anti-cancer activity , mediated suppression of the PKCα, MAPK and NF-κB pathways in MCF-7 cells. 4. Decursin exhibits cytotoxicity against various human cancer cells and to possess anti-amnesic activity in vivo through the inhibition of AChE activity.
Targets(IC50)	Apoptosis,CXCR,PKC

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 135 mg/mL (411.13 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 (30.45 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (30.45 mM),Solution. <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	3.0454 mL	15.2272 mL	30.4544 mL
5 mM	0.6091 mL	3.0454 mL	6.0909 mL
10 mM	0.3045 mL	1.5227 mL	3.0454 mL
50 mM	0.0609 mL	0.3045 mL	0.6091 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

Kim J M , Noh E M , Kim M S , et al. Decursin prevents TPA-induced invasion through suppression of PKC α /p38/NF- κ B-dependent MMP-9 expression in MCF-7 human breast carcinoma cells[J]. International Journal of Oncology, 2014.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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