

Jaceosidin

Chemical Properties

CAS No. : 18085-97-7

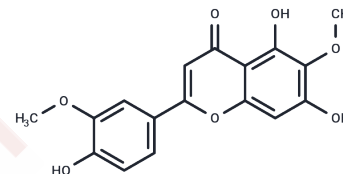
Formula: C17H14O7

Molecular Weight: 330.29

Storage: Keep away from moisture, 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	Jaceosidin has anti-oxidative activity. Jaceosidin has anti-inflammatory activity, also a microglial inhibitor with anti-neuroinflammation activity. Jaceosidin has anticancer activity, modulates the ERK/ATM/Chk1/2 pathway, leading to inactivation of the Cdc2-cyclin B1 complex, followed by G2/M cell cycle arrest in endometrial cancer cells. Jaceosidin has immunosuppressive effect through inhibiting T cell proliferation and activation, which is closely associated with its potent down-regulation of the IFN- γ /STAT1/T-bet signaling pathway. The pharmacokinetics of Jaceosidin may be dramatically affected by polymorphic CYP1A2, UGT1A1, and UGT1A7 responsible for the metabolism of Jaceosidin or by the coadministration of relevant CYP1A2 or UGT inhibitors or inducers.
Targets(IC50)	Apoptosis, Bcl-2 Family, COX, UGT

Solubility Information

Solubility	DMSO: 250 mg/mL (756.91 mM), Sonication is recommended. Ethanol: 7.14 mg/mL (21.62 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: 10 mg/mL (30.28 mM), Suspension. 10% DMSO+90% Saline: < 10 mg/mL (30.28 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.0276 mL	15.1382 mL	30.2764 mL
5 mM	0.6055 mL	3.0276 mL	6.0553 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

Song WY, et al. In vitro metabolism of jaceosidin and characterization of cytochrome P450 and UDP-glucuronosyltransferase enzymes in human liver microsomes. Arch Pharm Res. 2010 Dec;33(12):1985-96.

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