

Isolinderalactone

Chemical Properties

CAS No. : 957-66-4

Formula: C₁₅H₁₆O₃

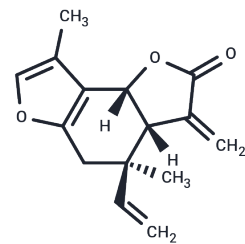
Molecular Weight: 244.29

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon, Store at low temperature

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	Isolinderalactone shows anti-inflammatory and anticancer capacity, and it exhibits moderate iNOS inhibitory activity, with the IC ₅₀ value of 0.30 μM.
Targets(IC ₅₀)	Apoptosis, Bcl-2 Family, NOS, NF-κB, Caspase, STAT, IAP, Survivin, VEGFR
In vitro	Isolinderalactone induces apoptosis in MDA-MB-231 cells and suppresses STAT3 signaling pathway through regulation of SOCS3 and miR-30c, may become a novel treatment for triple-negative breast cancer in the future.

Solubility Information

Solubility	DMSO: 22.5 mg/mL (92.1 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (8.19 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	4.0935 mL	20.4675 mL	40.935 mL
5 mM	0.8187 mL	4.0935 mL	8.187 mL
10 mM	0.4093 mL	2.0467 mL	4.0935 mL
50 mM	0.0819 mL	0.4093 mL	0.8187 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

Wong S L , Chang H S , Wang G J , et al. Secondary metabolites from the roots of *Neolitsea daibuensis* and their anti-inflammatory activity.[J]. *Journal of Natural Products*, 2011, 74(12):2489-96.

Meng-Chi, Yen, Ying-Chu, et al. Isolinderalactone enhances the inhibition of SOCS3 on STAT3 activity by decreasing miR-30c in breast cancer.[J]. *Oncology Reports*, 2016.

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