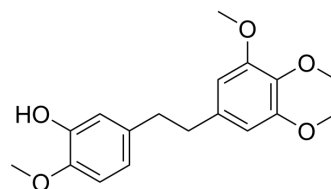


Erianin

Cat. No.:	HY-N0517
CAS No.:	95041-90-0
Molecular Formula:	C ₁₈ H ₂₂ O ₅
Molecular Weight:	318.36
Target:	Bacterial
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 1 year; -20°C, 6 months (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (314.11 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.1411 mL	15.7055 mL	31.4110 mL
				5 mM	0.6282 mL	3.1411 mL	6.2822 mL
				10 mM	0.3141 mL	1.5705 mL	3.1411 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 25 mg/mL (78.53 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% saline Solubility: 5 mg/mL (15.71 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.53 mM); Clear solution						
	4. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.53 mM); Clear solution						
	5. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.53 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Erianin, often used as an antipyretic and analgesic agent, could inhibit IDO-induced tumor angiogenesis.
In Vitro	Erianin is often used as antipyretic and analgesic agent. Erianin belongs to bibenzyl derivatives in structure, with the activity of anti-virus, anti-bacterial, as well as anti-benign prostatic hyperplasia. Erianin has obvious damage on 2LL-IDO cells,

Erianin basically has no cytotoxicity on human normal liver cell line L02, and cell viability is maintained at around 85%^[1]. Erianin inhibits the growth of HeLa cells and induces apoptosis in a dose- and time-dependent manner, inducing cell cycle arrest at the G2/M stage. Erianin treatment also increases the expression of Bax and caspase-3, but decreases levels of Bcl-2 and phosphorylated-ERK1/2^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Biol Int. 2021 Dec;45(12):2420-2428.
- Nutr Cancer. 2023 Apr 26;1-12.

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REFERENCES

[1]. Su C, et al. Erianin inhibits indoleamine 2, 3-dioxygenase -induced tumor angiogenesis. Biomed Pharmacother. 2017 Apr;88:521-528.

[2]. Li M, et al. Erianin inhibits human cervical cancer cell through regulation of tumor protein p53 via the extracellular signal-regulated kinase signaling pathway. Oncol Lett. 2018 Oct;16(4):5006-5012.

Caution: Product has not been fully validated for medical applications. For research use only.

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