Eupalinolide O

Cat. No.: HY-N8187

CAS No.: 2170228-67-6

Molecular Formula: $C_{22}H_{26}O_8$

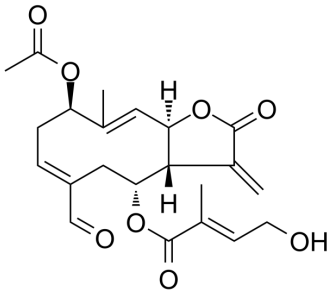
Molecular Weight: 418.44

Target: Apoptosis

Pathway: Apoptosis

Storage: -20°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (238.98 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3898 mL	11.9491 mL	23.8983 mL
	5 mM	0.4780 mL	2.3898 mL	4.7797 mL
	10 mM	0.2390 mL	1.1949 mL	2.3898 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eupalinolide O is a sesquiterpene lactone with anticancer activities. Eupalinolide O induces cell apoptosis in human MDA-MB-468 breast cancer cells[1].

In Vitro

Eupalinolide O could induce cell cycle arrest and apoptosis in human MDA-MB-468 breast cancer cells. Eupalinolide O also shows anti-TNBC (triple-negative breast cancer) activity against human MDA-MB-468 breast cancer cells[1].

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

REFERENCES

[1]. Bo Yang, et al. Precise discovery of a STAT3 inhibitor from Eupatorium lindleyanum and evaluation of its activity of anti-triple-negative breast cancer. Nat Prod Res. 2019 Feb;33(4):477-485.

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

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