Dihydroactinidiolide

Cat. No.: HY-107805

CAS No.: 17092-92-1

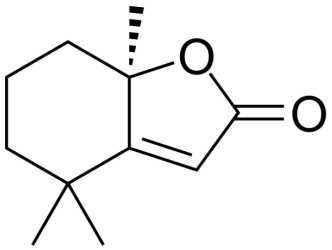
Molecular Formula: $C_{11}H_{16}O_2$

Molecular Weight: 180.24

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (554.82 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.5482 mL	27.7408 mL	55.4816 mL
	5 mM	1.1096 mL	5.5482 mL	11.0963 mL
	10 mM	0.5548 mL	2.7741 mL	5.5482 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 (13.87 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dihydroactinidiolide, existing in plant leaves and fruits, is a potent plant growth inhibitor, a regulator of gene expression and is responsible for photo acclimation in Arabidopsis. Dihydroactinidiolide has antioxidant activity, antibacterial activity, anticancer activity and neuroprotective effect[1].

REFERENCES

[1]. Das M, et al. Dihydroactinidiolide, a natural product against Aβ25-35 induced toxicity in Neuro2a cells: Synthesis, in silico and in vitro studies. Bioorg Chem. 2018

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