Atractylone

Cat. No.: HY-N2095

CAS No.: 6989-21-5

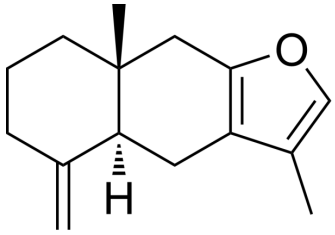
Molecular Formula: $C_{15}H_{20}O$

Molecular Weight: 216.32

Target: Influenza Virus

Pathway: Anti-infection

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (462.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.6228 mL	23.1139 mL	46.2278 mL
	5 mM	0.9246 mL	4.6228 mL	9.2456 mL
	10 mM	0.4623 mL	2.3114 mL	4.6228 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 (11.56 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (11.56 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Atractylone (Atractylon) is a sesquiterpenoid extracted from Atractylodis Rhizoma. Atractylone (Atractylon) alleviates influenza A virus (IAV)-induced lung injury via regulating the TLR7 signaling pathway, and acts as a promising agent for IAV treatment. Atractylone (Atractylon) inhibits the degranulation of mast cell and exhibits potential for the treatment of mast cell-mediated allergic reactions[1][2].

REFERENCES

[1]. Cheng Y, et al. Antiviral activities of atractylon from Atractylodis Rhizoma. Mol Med Rep. 2016 Oct;14(4):3704-10.

[2]. Han NR, et al. Inhibitory effects of atractylone on mast cell-mediated allergic reactions. Chem Biol Interact. 2016 Oct 25;258:59-68.

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