Senkyunolide I

Cat. No.: HY-N0745

CAS No.: 94596-28-8

Molecular Formula: $C_{12}H_{16}O_4$

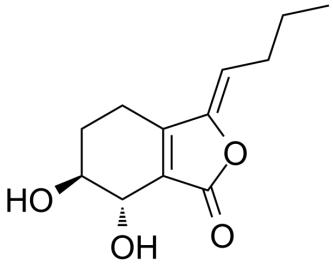
Molecular Weight: 224.25

Target: Caspase

Pathway: Apoptosis

Storage: 4°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 (445.93 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4593 mL	22.2965 mL	44.5931 mL
	5 mM	0.8919 mL	4.4593 mL	8.9186 mL
	10 mM	0.4459 mL	2.2297 mL	4.4593 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 (11.15 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Senkyunolide I, isolated from Ligusticum chuanxiong Hort, is an anti-migraine compound. Senkyunolide I protects rat brain against focal cerebral ischemia-reperfusion injury by up-regulating p-Erk1/2, Nrf2/HO-1 and inhibiting caspase 3[1][2].

REFERENCES

[1]. Wang YH, et al. Effect and mechanism of senkyunolide I as an anti-migraine compound from Ligusticum chuanxiong. J Pharm Pharmacol. 2011 Feb;63(2):261-6.

[2]. Hu Y, et al. Senkyunolide I protects rat brain against focal cerebral ischemia-reperfusion injury by up-regulating p-Erk1/2, Nrf2/HO-1 and inhibiting caspase 3. Brain Res. 2015 Apr 24;1605:39-48.

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