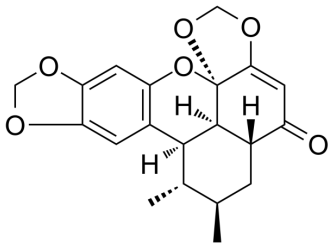
Sauchinone

Cat. No.:	HY-N0613
CAS No.:	177931-17-8
Molecular Formula:	$C_{20}H_{20}O_6$
Molecular Weight:	356.37
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 22.73 mg/mL (63.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8061 mL	14.0304 mL	28.0607 mL
	5 mM	0.5612 mL	2.8061 mL	5.6121 mL
	10 mM	0.2806 mL	1.4030 mL	2.8061 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.27 mg/mL (6.37 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.27 mg/mL (6.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sauchinone is a diastereomeric lignan isolated from Saururus chinensis (Saururaceae). Sauchinone inhibits LPS-inducible iNOS, TNF-α and COX-2 expression through suppression of I-κBα phosphorylation and p65 nuclear translocation. Sauchinone has anti-inflammatory and antioxidant activity[1].

IC_{50} & Target		
	I-kappaBalpha	p65

In Vitro

Sauchinone (1, 3, 10, 30μm; 6 hours) inhibits LPS-inducible increase in the iNOS mRNA in Raw264.7 cells[1].
Sauchinone at the concentrations of 3 and 30 μm inhibits TNF-α production in LPS-treated cells by 40 and 50%, respectively [1].

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

CUSTOMER VALIDATION

- J Nat Med. 2020 Sep;74(4):777-787.

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REFERENCES

[1]. Lee AK, et al. Inhibition of lipopolysaccharide-inducible nitric oxide synthase, TNF-alpha and COX-2expression by sauchinone effects on I-kappaBalpha phosphorylation, C/EBP and AP-1 activation. Br J Pharmacol. 2003 May;139(1):11-20.

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