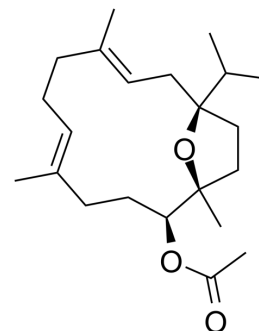


Incensole Acetate

Cat. No.:	HY-N4098
CAS No.:	34701-53-6
Molecular Formula:	C ₂₂ H ₃₆ O ₃
Molecular Weight:	348.52
Target:	Apoptosis
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 (286.93 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.8693 mL	14.3464 mL	28.6928 mL
		5 mM		0.5739 mL	2.8693 mL	5.7386 mL
		10 mM		0.2869 mL	1.4346 mL	2.8693 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.17 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.17 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.17 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Incensole acetate is a main constituent of <i>Boswellia carterii</i> resin, has neuroprotective effects against neuronal damage in traumatic and ischemic head injury. Incensole acetate reduces Aβ ₂₅₋₃₅ -triggered apoptosis in hOBNSCs ^[1] .
In Vitro	<p>Incensole acetate (100 μM; pre-treatment 4 hours) significantly ameliorates Aβ₂₅₋₃₅-induced cell death, a 48–52% decrease in cell viability at Aβ₂₅₋₃₅ is restored to 85–89% upon pre-treatment with IA^[1].</p> <p>Incensole acetate (5-100 μM) pretreatment reverses increase in the mRNA and protein level of Bax, caspase 8, cyto c and decrease in the mRNA and protein level of Bcl2 induced by Aβ₂₅₋₃₅ in hOBNSCs^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p>

Cell Line:	Human olfactory bulb neural stem cells
Concentration:	100 μ M
Incubation Time:	Pre-treatment 4 hours
Result:	Increased hOBNSCs cell viability induced by A β 25-35.

REFERENCES

[1]. El-Magd MA, et al. Incensole acetate prevents beta-amyloid-induced neurotoxicity in human olfactory bulb neural stem cells. Biomed Pharmacother. 2018 Sep;105:813-823.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA