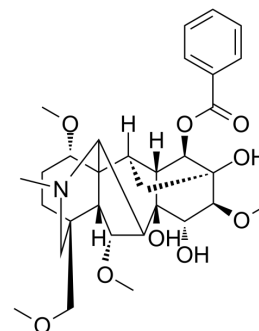


Benzoylhypaconine

Cat. No.:	HY-N0850
CAS No.:	63238-66-4
Molecular Formula:	C ₃₁ H ₄₃ NO ₉
Molecular Weight:	573.67
Target:	Others
Pathway:	Others
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 (174.32 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
		Concentration			
		1 mM	1.7432 mL	8.7158 mL	17.4316 mL
		5 mM	0.3486 mL	1.7432 mL	3.4863 mL
10 mM	0.1743 mL	0.8716 mL	1.7432 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 (4.36 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.36 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.36 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Benzoylhypaconine (Benzoylhypacoitine) is a monoester Aconitum alkaloid, is the main pharmacologic and toxic component ^[1] .
In Vitro	Aconitum alkaloids have narrow therapeutic indices. Their potential toxicity, which is caused by hyperpolarization and activation of voltage-dependent sodium and calcium channels, can result in fatal cardiac poisoning and neurotoxicity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Song S, et al. Simultaneous quantification and pharmacokinetics of alkaloids in Herba Ephedrae-Radix Aconiti Lateralis extracts. J Anal Toxicol. 2015 Jan-Feb;39(1):58-68.

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

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