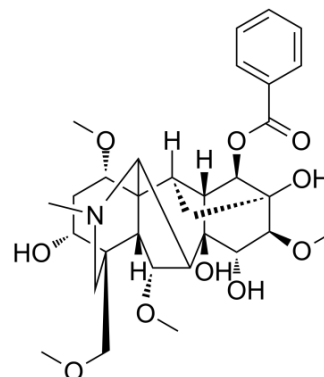


Benzoylmesaconine

Cat. No.:	HY-N0218		
CAS No.:	63238-67-5		
Molecular Formula:	C ₃₁ H ₄₃ NO ₁₀		
Molecular Weight:	589.67		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (169.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6959 mL	8.4793 mL	16.9586 mL
	5 mM	0.3392 mL	1.6959 mL	3.3917 mL
	10 mM	0.1696 mL	0.8479 mL	1.6959 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Benzoylmesaconine is the most abundant component of Wutou decoction, which is widely used in China because of its therapeutic effect on rheumatoid arthritis.

CUSTOMER VALIDATION

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- Research Square Preprint. 2021 Feb.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Dai PM, et al. Pharmacokinetic comparisons of benzoylmesaconine in rats using ultra-performance liquid chromatography-tandem mass spectrometry after administration of pure benzoylmesaconine and Wutou decoction. *Molecules*. 2014 Oct 17;19(10):16757-69.
- [2]. Ye L, et al. Monoester-Diterpene Aconitum Alkaloid Metabolism in Human Liver Microsomes: Predominant Role of CYP3A4 and CYP3A5. *Evid Based Complement Alternat Med*. 2013;2013:941093.
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Caution: Product has not been fully validated for medical applications. For research use only.

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