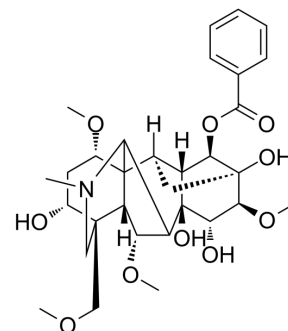


Benzoylmesaconine

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:	<div> <div>Powder</div> <div> -20°C 3 years 4°C 2 years </div> </div> <div> <div>In solvent</div> <div> -80°C 6 months -20°C 1 month </div> </div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (169.59 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	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	1. 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					
	2. 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					
	3. 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

-
- 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.
-

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