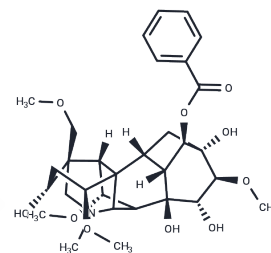


Benzoylmesaconine

Chemical Properties

CAS No. :	63238-67-5
Formula:	C ₃₁ H ₄₃ N ₅ O ₁₀
Molecular Weight:	589.67
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Benzoylmesaconine (Mesaconine 14-benzoate) is the most abundant component of Wutou decoction, which is widely used in China because of its therapeutic effect on rheumatoid arthritis. Benzoylmesaconine has analgesic activity. Benzoylmesaconine may improve the resistance of T6S-mice (or thermally injured mice) to the infection of HSV-1, through the induction of antagonistic CD4+ T cells against burn-associated type-2 T cells.
Targets(IC50)	Others,NF-κB,Interleukin

Solubility Information

Solubility	DMSO: 11 mg/mL (18.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.39 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0339 mL	0.1696 mL	0.3392 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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.
- Chen L, Zhang C, Cao J, et al. Yiyi Fuzi Baijiang Decoction Alleviates Ulcerative Colitis Partly by Regulating TLR4-Mediated PI3K/Akt and NF- κ B Pathways. *Evidence-Based Complementary and Alternative Medicine*. 2022, 2022.
- 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.
- Suzuki Y, Hayakawa Y, Oyama T, et al. Analgesic effect of benzoylmesaconine.[J]. *Folia Pharmacologica Japonica*, 1993, 102(6):399-404.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481