

## Benzoylaconine

## Chemical Properties

CAS No. : 466-24-0

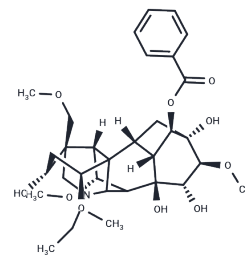
Formula: C<sub>32</sub>H<sub>45</sub>N<sub>1</sub>O<sub>10</sub>

Molecular Weight: 603.7

Store at low temperature

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	Benzoylaconine (Isaconitine) is an alkaloid in the Chinese traditional medicine Radix Aconiti Lateralis Preparata (Fuzi). Benzoylaconine and aconitine can induce reproductive toxicity in BeWo Cell, the amino acid metabolism was the main metabolic pathway and responsible for the placental and fetal toxicity of them.
Targets(IC50)	Others,NF-κB,NO Synthase,Angiotensin-converting Enzyme (ACE),COX,p38 MAPK,P-gp, ROS,TLR

## Solubility Information

Solubility	DMSO: 250 mg/mL (414.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (16.56 mM),Solution. 10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.66 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	1.6565 mL	8.2823 mL	16.5645 mL
5 mM	0.3313 mL	1.6565 mL	3.3129 mL
10 mM	0.1656 mL	0.8282 mL	1.6565 mL
50 mM	0.0331 mL	0.1656 mL	0.3313 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

Liu XX, et al. Determination of alkaloids in Radix Aconiti Lateralis Preparata by RP-ion-pair HPLC. Yao Xue Xue Bao. 2006 Apr;41(4):365-9.

Chen L, Zhang C, Cao J, et al. Yiyi Fuzi Baijiang Decoction Alleviates Ulcerative Colitis Partly by Regulating TLR4-Mediated PI3K/Akt and NF- $\kappa$ B Pathways. Evidence-Based Complementary and Alternative Medicine. 2022, 2022.

Borcsa B, et al. Diterpene alkaloids from the roots of Aconitum moldavicum and assessment of Nav1.2 sodium channel activity of aconitum alkaloids. Planta Med. 2014 Feb;80(2-3):231-6.

Dai P, Zhu L, Yang X, et al. Multidrug resistance-associated protein 2 is involved in the efflux of Aconitum alkaloids determined by MRP2-MDCKII cells[J]. Life Sciences, 2015, 127:66-72.

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