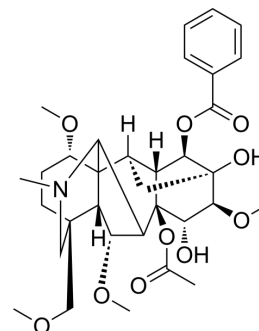


## Hypaconitine

<b>Cat. No.:</b>	HY-N0267		
<b>CAS No.:</b>	6900-87-4		
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>45</sub> NO <sub>10</sub>		
<b>Molecular Weight:</b>	615.71		
<b>Target:</b>	TNF Receptor		
<b>Pathway:</b>	Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (81.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6241 mL	8.1207 mL	16.2414 mL
	5 mM	0.3248 mL	1.6241 mL	3.2483 mL
	10 mM	0.1624 mL	0.8121 mL	1.6241 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 (4.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.06 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Hypaconitine, an active and highly toxic constituent derived from Aconitum species, is widely used to treat rheumatism. IC50 value: Target: In vitro: The present study investigated the metabolism of hypaconitine in vitro using male human liver microsomes. The primary contributors toward HA metabolism were CYP3A4 and 3A5, with secondary contributions by CYP2C19, 2D6 and CYP2E1 [1]. In vivo:

### CUSTOMER VALIDATION

- Chem Biol Interact. 2019 Aug 1;308:288-293.
- Xenobiotica. 2021 Jan 5;1-13.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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- [1]. Ling Ye, et al. Microsomal cytochrome P450-mediated metabolism of hyaconitine, an active and highly toxic constituent derived from Aconitum species. Toxicology letters, 2011, 204 (1): 81-91
- [2]. Yang Yuan, et al. Difference of hyaconitine concentration in serum between cold-deficiency and normal mice. China Journal of Chinese Materia Medica, 2010-15
- [3]. Zhang Jinming, Compatibility Effect between Radix Aconiti Lateralis and Radix Glycyrrhizae on Pharmacokinetics of Hypaconitine in Rat Plasma by LC-MS/MS. World Science Technology-Modernization of Traditional Chinese Medicine, 2011-06
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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