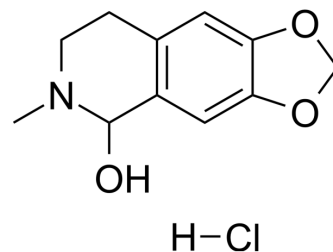


## Hydrastinine hydrochloride

Cat. No.:	HY-B1181
CAS No.:	4884-68-8
Molecular Formula:	C <sub>11</sub> H <sub>14</sub> ClNO <sub>3</sub>
Molecular Weight:	243.69
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (341.95 mM; Need ultrasonic) H <sub>2</sub> O : 50 mg/mL (205.18 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent Concentration</div> <div>Mass</div>	1 mg	5 mg	10 mg
		1 mM	4.1036 mL	20.5179 mL	41.0357 mL
		5 mM	0.8207 mL	4.1036 mL	8.2071 mL
		10 mM	0.4104 mL	2.0518 mL	4.1036 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 10 mg/mL (41.04 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.54 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.54 mM); Clear solution				
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.54 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Hydrastinine hydrochloride is a major alkaloid constituent in goldenseal ( <i>Hydrastis canadensis</i> ). Hydrastinine hydrochloride can be used as a haemostatic agent <sup>[1]</sup> .
In Vitro	Goldenseal has been used for the treatment of a wide variety of ailments including gastrointestinal disturbances, urinary tract disorders, and inflammation. The five major alkaloid constituents in goldenseal are Berberine, Palmatine, Hydrastine, Hydrastinine, and Canadine <sup>[1]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

- [1]. Chen S, et al. Mechanism study of goldenseal-associated DNA damage. Toxicol Lett. 2013 Jul 31;221(1):64-72.
- [2]. Freudenmann RW, et al. The origin of MDMA (ecstasy) revisited: the true story reconstructed from the original documents. Addiction. 2006 Sep;101(9):1241-5.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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