## L-Hyoscyamine sulfate

Cat. No.:	HY-N0471A	^
CAS No.:	620-61-1	
Molecular Formula:	C <sub>17</sub> H <sub>23</sub> NO <sub>3</sub> .1/2H <sub>2</sub> SO <sub>4</sub>	
Molecular Weight:	338.41	
Target:	mAChR	
Pathway:	GPCR/G Protein; Neuronal Signaling	
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	0.5H <sub>2</sub> SO <sub>4</sub>

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (73.87 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.9550 mL	14.7750 mL	29.5500 mL	
		5 mM	0.5910 mL	2.9550 mL	5.9100 mL	
		10 mM	0.2955 mL	1.4775 mL	2.9550 mL	
	Please refer to the sol	ubility information to select the app	propriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (7.39 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution					

Description	L-Hyoscyamine sulfate (Daturine sulfate), a natural plant tropane alkaloid, is a potent and competitive muscarinic receptor (MR) antagonist. L-Hyoscyamine sulfate is a levo-isomer to Atropine (HY-B1205) <sup>[1][2]</sup> .			
In Vivo	L-Hyoscyamine sulfate (Daturine sulfate; 5-20 mg/kg; iv) prolongs the migrating MMC cycle length <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Rats <sup>[1]</sup>			

# Product Data Sheet



Dosage:	5, 10, 20 mg/kg
Administration:	IV
Result:	Prolonged the migrating myoelectric complex (MMC) cycle length.

### **CUSTOMER VALIDATION**

- ACS Catal. 2021 Feb 18.
- Food Chem. 2021 Feb 1;337:127617.

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#### REFERENCES

[1]. Lars Göran Axelsson, et al. Regulatory role of 5-HT and muscarinic receptor antagonists on the migrating myoelectric complex in rats. Eur J Pharmacol. 2003 Apr 25;467(1-3):211-8.

[2]. Harald John, et al. Application of an enantioselective LC-ESI MS/MS procedure to determine R- and S-hyoscyamine following intravenous atropine administration in swine. Drug Test Anal. Mar-Apr 2012;4(3-4):194-8.

Caution: Product has not been fully validated for medical applications. For research use only.