L-Hyoscyamine

MedChemExpress

Cat. No.:	HY-N0471			
CAS No.:	101-31-5			
Molecular Formula:	C ₁₇ H ₂₃ NO ₃			
Molecular Weight:	289.37			
Target:	mAChR			
Pathway:	GPCR/G Protein; Neuronal Signaling			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4558 mL	17.2789 mL	34.5578 m
	5 mM	0.6912 mL	3.4558 mL	6.9116 mL
	10 mM	0.3456 mL	1.7279 mL	3.4558 mL
Please refer to the	solubility information to select the app	propriate solvent.		
	it one by one: 10% DMSO >> 40% PEC mg/mL (8.64 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
	t one by one: 10% DMSO >> 90% (20 mg/mL (8.64 mM); Clear solution	% SBE-β-CD in saline)		
	it one by one: 10% DMSO >> 90% cor			

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

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Animal Model:	Rats ^[1]
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.

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