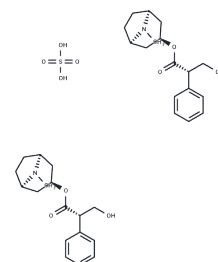


L-Hyoscyamine sulfate

Chemical Properties

CAS No. :	620-61-1
Formula:	C34H48N2O10S
Molecular Weight:	676.8
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	L-Hyoscyamine sulfate (Levsin Sulfate) is the sulfate salt of a belladonna alkaloid derivative and the levorotatory form of racemic atropine isolated from the plants <i>Hyoscyamus niger</i> or <i>Atropa belladonna</i> , which exhibits anticholinergic activity. Hyoscyamine functions as a non-selective, competitive antagonist of muscarinic receptors, thereby inhibiting the parasympathetic activities of acetylcholine on the salivary, bronchial, and sweat glands, as well as the eye, heart, bladder, and gastrointestinal tract. These inhibitory effects cause a decrease in saliva, bronchial mucus, gastric juices, and sweat. Furthermore, its inhibitory action on smooth muscle prevents bladder contraction and decreases gastrointestinal motility.
Targets(IC50)	AChR

Solubility Information

Solubility	DMSO: 10 mg/mL (14.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4775 mL	7.3877 mL	14.7754 mL
5 mM	0.2955 mL	1.4775 mL	2.9551 mL
10 mM	0.1478 mL	0.7388 mL	1.4775 mL
50 mM	0.0296 mL	0.1478 mL	0.2955 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.

Reference

Quan, H., Xia, K., Zeng, J., Chen, M., Lan, X., & Liao, Z. (2016). Overexpression of NtPMT and HnH6H changed hyoscyamine-rich *Atropa belladonna* to scopolamine-rich varieties. *Send To Yao Xue Xue Bao*, 51(12), 1913-9.

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