

## L-Hyoscyamine sulfate

### Chemical Properties

CAS No. : 620-61-1

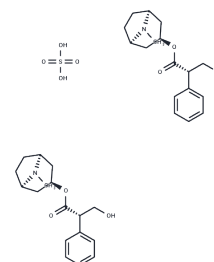
Formula: C34H48N2O10S

Molecular Weight: 676.80

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### 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 *Hyoscyamus niger* or *Atropa belladonna*, 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: 10.00 mg/mL (14.78 mM), Sonication is recommended.  
(< 1 mg/ml refers to the product slightly soluble or insoluble)

### 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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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