

## Scopolamine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Scopolamine

**Catalog No.:** CFN98200

**Cas No.:** 51-34-3

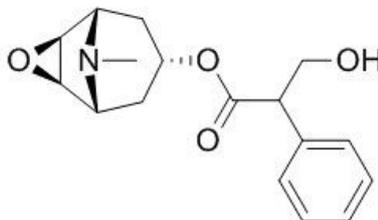
**Purity:** >=98%

**M.F:** C<sub>17</sub>H<sub>21</sub>NO<sub>4</sub>

**M.W:** 303.35

**Physical Description:** Oil

**Synonyms:** Murocoll;Plexonal;Scopoderm;transderm-SCOP;Hyoscine.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The herbs of *Atropa belladonna* L.

### [ Biological Activity or Inhibitors ]

Both diazepam and scopolamine can impair memory functions although the action of the

latter drug is more pronounced and prolonged, the deficit appears to be in the storage process leaving retrieval processes unaffected; scopolamine in addition interfered with organizational processes; subjectively, scopolamine also produces a larger sedative effect than diazepam.<sup>[1]</sup>

Scopolamine can enhance generalization between odor representations in rat olfactory cortex.<sup>[2]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: Methanol-0.05 M Sodium dihydrogen phosphate solution(pH5.7)=50: 50;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Ghoneim M M, Mewaldt S P. *Psychopharmacology*, 1975, 44(3):257-62.

[2] Wilson D A. *Learn. Memory*, 2001, 8(5):279-85.

[3]Dong Z L, Cheng K J, Gu G Q. *Journal of Clinical Anesthesiology*, 2007, 23(12):1017-9.

## **[ Contact ]**

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