

Atropine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Atropine

Catalog No.: CFN98824

Cas No.: 51-55-8

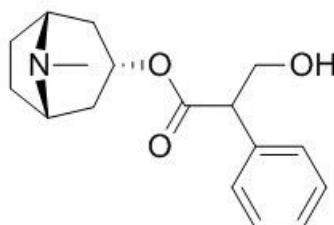
Purity: > 95%

M.F: C₁₇H₂₃NO₃

M.W: 289.37

Physical Description: Powder

Synonyms: (+/-)-Hyoscyamine;(+,-)Tropyltropate;1AlphaH,5alphaH-Tropan-3alpha-ol(±)



[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]

Atropine, a muscarinic antagonist, can reduce experimental myopia and eye enlargement

via a nonaccommodative mechanism.^[1]

Low-dose atropine causes bradycardia either by acting on the sinoatrial node or by its effects on central muscarinic receptors increasing vagal activity. Any central muscarinic effects of high-dose atropine on RR interval are masked by peripheral muscarinic blockade at the sinoatrial node, which causes tachycardia.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 0.02 M Sodium acetate buffer(containing 0.02% triethanolamine and the pH was adjusted to 6.0 with acetic acid)-Methanol=60:40;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 215 nm.

[Storage]

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

[References]

[1] McBrien N A, Moghaddam H O, Reeder A P. *Invest. Ophth. Vis. Sci.*, 1993, 34(1): 205-15.

[2] Montano N, Cogliati C, Porta A, *et al. Circulation*, 1998, 98(14):1394-9.

[3] Hou S G, Gu X X, Wang S Y, *et al. China Journal of Chinese Materia Medica*, 2006, 31(13):1065-7.

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