Natural Products

ChemFaces

D-Menthol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: D-Menthol

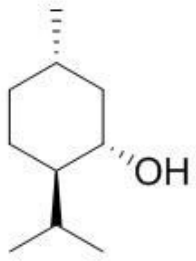
Catalog No.: CFN98125

Cas No.: 15356-60-2

Purity: > 98%

M.F: $C_{10}H_{20}O$

M.W: 156.27



Physical Description: Cryst.

Synonyms:5-Methyl-2-propan-2-yl-1-cyclohexanol;(1R,2S,5R)-2-isopropyl-5-methylcyclohexanol; 3-p-Menthanol; Hexahydrothymol; Menthomenthol.

[Intended Use]

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

[Source]

The herbs of *Mentha canadensis L.*

[Biological Activity or Inhibitors]

Menthol acts as a noncompetitive antagonist of the 5-HT3 receptor, 5-HT3 receptor-mediated currents in acutely dissociated nodose ganglion neurons were also inhibited by menthol (100 uM), demonstrates that menthol, at pharmacologically relevant concentrations, is an allosteric inhibitor of 5-HT3 receptors.[1]

Menthol is a common compound in pharmaceutical and commercial products and a popular additive to cigarettes, it attenuates α7 mediated Ca 2+ transients in the cell body and neurite, suggests that menthol inhibits α7-nACh receptors in a noncompetitive manner.[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.

[HPLC Method][3]

Mobile phase: Chloroform-Methanol-H2O=14:52:30;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 289 nm.

[Storage]

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

[References]

[1] Ashoor A, Nordman J C, Veltri D, *et al. J. Pharmacol. Exp. Ther., 2013, 347(2): 398-409.*

[2] Ashoor A, Nordman J C, Veltri D, *et al. Plos One, 2013, 8(7):e67674.*

[3] Tian J, Xu Y L, Yang D. *China Pharmacy, 2005,16(12):944-5.*

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