Natural Products

ChemFaces

Dihydroartemisinin Datasheet

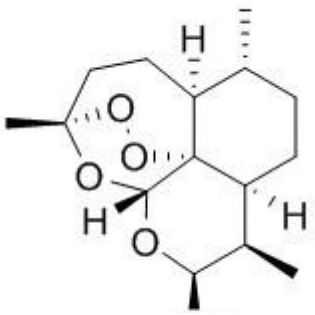
5th Edition (Revised in January, 2017)

[Product Information]

Name: Dihydroartemisinin

Catalog No.: CFN99507

Cas No.: 17020-04-1



Purity: > 95%

M.F: $C_{15}H_{24}O_5$

M.W: 284.35

Physical Description: White cryst.

Synonyms:(3R,5aS,6R,8aS,9R,10R,12R,12aR)-Decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-ol; Di-hydro artemisinin; alpha-Dihydroartemisinin.

[Intended Use]

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

[Source]

The herbs of *Artemisia annua L.*

[Biological Activity or Inhibitors]

Dihydroartemisinin can inhibit tumor growth but not early rounds of papillomavirus replication, indicates that it may be useful for the topical treatment of epithelial papillomavirus lesions, including those that have progressed to the neoplastic state.[1]

Dihydroartemisinin derivatives have antimalarial activity.[2]

Dihydroartemisinin can downregulate vascular endothelial growth factor expression and induce apoptosis in chronic myeloid leukemia K562 cells, it may present potential antileukemia effect as a treatment for chronic myeloid leukemia therapy, or as an adjunct to standard chemotherapeutic regimens.[3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Acetonitrile- 0.1% Trichloroacetic acid- Phosphoric acid=19:81:0. 035;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 349 nm.

[Storage]

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

[References]

[1] Disbrow G L, Baege A C, Kierpiec K A, *et al. Cancer Res., 2005, 65(23):10854-61.*

[2] Lin A J, Klayman D L, Milhous W K. *J. Med. Chem.,1987, 30(11):2147-50.*

[3] Lee J, Zhou H J, Wu X H. *Cancer Chemother. Pharmacol.,2006,57(2):213-20.*

[4] Guo Y X, Zhang Y J, Ding T, *et al. J. Pharm.Res., 2014, 43(9):713-4.*

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