



Dehydroandrographolide Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Dehydroandrographolide

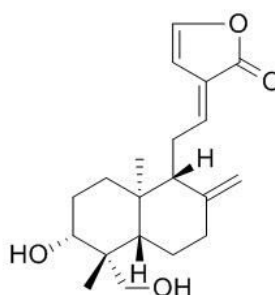
Catalog No.: CFN99770

Cas No.: 134418-28-3

Purity: >=98%

M.F: C₂₀H₂₈O₄

M.W: 332.43



Physical Description: White powder

Synonyms: (3E)-3-[2-[(1S,4aS,5R,6R,8aS)-Decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylene-1-naphthalenyl]ethylidene]-2(3H)-furanone; 14-Deoxy-11-dehydroandrographolide; Deoxy-11,12-Didehydroandrographolide; (2R,5R,10R)-2,17-dihydroxy-20-oxo-9,19-didehydro-5,6,7,8,9,10,15-octahydro-20:5,10-dicycloretnal.

[Intended Use]

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

[Source]

The herbs of *Andrographis paniculata* (Burm. f.) Nees.

[Biological Activity or Inhibitors]

Dehydroandrographolide and andrographolide, two natural diterpenoids isolated from *Andrographis paniculata* possess activity against HBV DNA replication with IC₅₀ values of 22.58 and 54.07 μM and low SI values of 8.7 and 3.7, respectively.^[1]

Dehydroandrographolide can enhance innate immunity of intestinal tract by up-regulating the expression of hBD-2 through the p38 MAPK pathways.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol-Acetonitrile-H₂O=50:10:40 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 225 nm.

[Storage]

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

[References]

[1] Chen H, Ma Y B, Huang X Y, *et al. Bioorg. Med. Chem. Lett.*, 2014, 24(10):2353-9.

[2] Xiong W B, Shao Z J, Xiong Y, *et al. DARU.*, 2015, 23(1):1-7.

[3] Chen L, Yu A, Zhuang X, *et al. Talanta* , 2007, 74(1):146-52.

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