



1beta-Hydroxyalantolactone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 1beta-Hydroxyalantolactone

Catalog No.: CFN92600

Cas No.: 68776-47-6

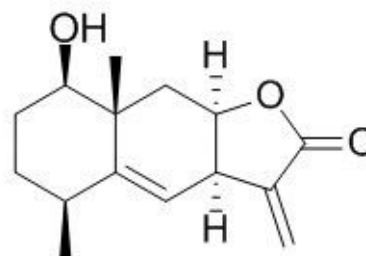
Purity: > 95%

M.F: C₁₅H₂₀O₃

M.W: 248.3

Physical Description: Powder

Synonyms: (3aR,5S,8R,8aR,9aR)-3a,5,6,7,8,8a,9,9a-Octahydro-8-hydroxy-5,8a-dimethyl-1-3-methylenenaphtho[2,3-b]furan-2(3H)-one.



[Intended Use]

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

[Source]

The herbs of *Inula japonica* Thunb.

[Biological Activity or Inhibitors]

1beta-Hydroxyalantolactone can modulate many processes that influence inflammatory reactions, it has protective effects against atopic dermatitis-like skin inflammation.^[1]

1beta-Hydroxyalantolactone exhibits remarkable cytotoxicity against HEP2, SGC-7901 and HCT116 human cancer cell lines, comparable with etoposide (Vp-16) used as reference drug, furthermore, treatment of HEP2 cells with 1beta-hydroxyalantolactone induces apoptosis associated with cleaved procaspase-3 and PARP.^[2]

1beta-Hydroxyalantolactone has protective effects on cerebral ischemia-reperfusion injury, the mechanism is associated with reducing the level of extracellular Prx1 and Prx5, inflammatory cytokines (IL-1 β , TNF- α , IFN- γ and IL-6), adhesion molecule (ICAM-1) and matrix metalloproteinase (MMP-9).^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.2 ml/min;

Column temperature: 25 °C;

The wave length of determination: 205 nm.

[Storage]

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

[References]

[1] Lin G, Gao S, Cheng J, *et al. Pharm. Biol.*, 2015, 54(3):516-22.

[2] Xiang P, Guo X, Han Y Y, *et al. Nat. Prod. Commun.*, 2016, 11(1):7-10.

[3] Chen H. *Anhui University of Chinese Medicine*, 2015.

[4] Yang Q, Liu H, He YJ, *et al. Journal of Shenyang Pharmaceutical University*, 2012, 29(2):116-20.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com