

Triptonide Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Triptonide

Catalog No.: CFN99134

Cas No.: 38647-11-9

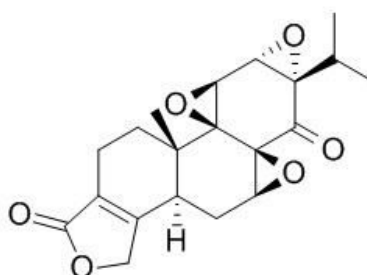
Purity: >=98%

M.F: C₂₀H₂₂O₆

M.W: 358.39

Physical Description: Powder

Synonyms: 14-Deoxy-14-oxotriptolide; (3bS,4aS,5aS,6aS,7aS,7bS,8aS,8bS)-8b-methyl-6a-(propan-2-yl)-3b,4,4a,7a,7b,8b,9,10-octahydrotrisoxireno[6,7:8a,9:4b,5]phenanthro[1,2-c]furan-1,6(3H,6aH)-dione.



[Intended Use]

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

[Source]

The herb of *Tripterygium wilfordii* Hook.f.

[Biological Activity or Inhibitors]

Triptonide shows cytotoxic activities against the majority of the human tumor cell lines.^[1]

Triptonide has extensive suppressive effects on mouse immune function and its mechanism may be related to the reduction of Th/Ts ratio and the induction of Ts cells.^[2]

Triptonide has good anti-inflammatory and immunosuppressive actions, it can apparently inhibit auricle inflammation and capillary permeability, decrease the index of thymus and the clearance rate of charcoal particles and suppress the formation of spleen cell antibody, reduce the content of serum hemolysin and T-lymphocytes percentage in mice.^[3]

Triptonide can effectively induce apoptosis of Wnt-dependent cancer cells via C-terminal Transactivation Domain of β -catenin.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O=40:60 ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 217 nm.

[Storage]

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

[References]

[1] Ning L, Qu G, Ye M, *et al. Planta Med.*, 2003, 69(9):804-8.

[2] Pei R J, Qi L H, Liu X J. *Zhongguo Yao Li Xue Bao.* 1993, 14(3):238-42.

[3] Lv L P, Wan J M, Wang F J. *Chinese Journal of Hospital Pharmacy*, 2006, 26(6):695-7.

[4] Chinison Jessica, Aguilar Jose S, Avalos Alan, *et al. Sci. Rep.*, 2016, 6:32779.

[5] Wang Z, Wen J, Xing J, *et al. Biomed. Chromatogr.*, 2005, 19(1):60-2.

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