

Triptolide Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Triptolide

Catalog No.: CFN99196

Cas No.: 38748-32-2

Purity: >=98%

M.F: C₂₀H₂₄O₆

M.W: 376.40

Physical Description: White powder

Synonyms:(-)-(3bS,4aS,5aS,6R,6aR,7aS,7bS,8aS,8bS)-3b,4,4a,6,6a,7a,7b,8b,9,10-De cahydro-6-hydroxy-6a-isopropyl-8b-methyltrisoxireno[4b,5:6,7:8a,9]phenanthro[1,2-c]fura n-1(3H)-one.

[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]

Triptolide is the major active component in the extract of Tripterygium wilfordii Hook, f

(TWHf) that inhibits antigen or mitogen-induced T cell proliferation, triptolide induces T cell

apoptosis through activating caspases, and suggest the growth arrest and apoptotic effect

of triptolide may contribute to the immunosuppressive activity of TWHf extract.[1]

Triptolide has antitumor properties, it has a broad spectrum of activity against tumors that

contain both wild-type and mutant forms of p53.[2]

Triptolide is a promising immunosuppressive and anti-inflammatory agent, it has inhibitory

effects on a variety of proinflammatory cytokines and mediators and on the expression of

adhesion molecules by endothelial cells, it is effective for the treatment of a variety of

autoimmune diseases and in prevention of allograft rejection and graft-versus-host

disease in both animals and humans; moreover, triptolide possesses toxicity and male

anti-fertility effect.[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Ethanol- H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 255 nm.

[Storage]

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

[References]

[1] Yang Y, Liu Z, Tolosa E, et al. Immunopharmacology, 1998, 40(2):139-49.

[2] Yang S, Chen J, Guo Z, et al. Mol. Cancer Ther., 2003, 2(1):65-72.

[3] Chen B J. Leuk. Lymphoma, 2001, 42(3):253-65.

[4] Pu C H, He M F, Zhanag X Q, et al. Zhongguo Zhong yao za zhi, 2005, 30(4):266-7.

[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