

Tripdiolide Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Tripdiolide

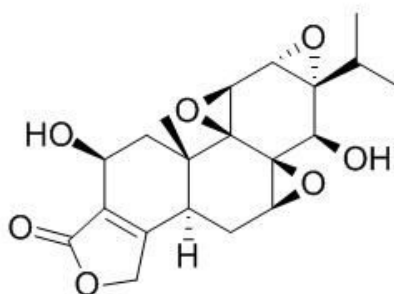
Catalog No.: CFN99197

Cas No.: 38647-10-8

Purity: >=98%

M.F: C₂₀H₂₄O₇

M.W: 376.40



Physical Description: White cryst.

Synonyms: Trisoxireno(4b,5:6,7:8a,9)phenanthro(1,2-c)furan-1(3H)-one,3b,4,4a,6,6a,7a,7b,8b,9,10-decahydro-6,10-dihydroxy-8b-methyl-6a-(1-methylethyl)-, (3bS,4aS,5aS,6R,6aR,7aS,7bS,8aS,8bS,10S)-; Tri-(p-isopropylphenyl)phosphin; Tri-p-cumylphosphin; Phosphine, tris(4-(1-methylethyl)phenyl).

[Intended Use]

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

[Source]

The herbs of *Tripterygium wilfordii* Hook.f.

[Biological Activity or Inhibitors]

Triptolide and triptolide are cytotoxic diterpene triepoxides from plant tissue cultures of *Tripterygium wilfordii* Hook F.^[1]

Triptolide and triptolide are effective in treating murine lupus nephritis, they also can significantly ameliorate lupus nephritis in (NZB x NZW)F1 mice, reduce cytokine and chemokine production, and prolong survival.^[2]

Triptolide and triptolide may be responsible for the anti-rheumatic properties of crude aqueous extracts of *Tripterygium wilfordii* Hook f. and represent a novel class of immunosuppressive drugs with potential clinical utility.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: H₂O- 50% Methanol in acetonitrile=79:21;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 219 nm.

[Storage]

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

[References]

[1] Kutney J P, Hewitt G M, Kurihara T, *et al. Can. J.Chem.*, 1981, 59(17):2677-83.

[2] Tao X, Fan F, Hoffmann V, *et al. Arthritis Rheum.*, 2008 Jun;58(6):1774-83.

[3] Gu W Z, Chen R, Brandwein S, *et al. Int. J. Immunopharmacol.*, 1995 May;17(5):351

[4] Ma J, Schmidt B M, Poulev A, *et al. Phytochem. Anal.*, 2008, 19(4):348-52.

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