Natural Products

ChemFaces

Ferruginol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ferruginol

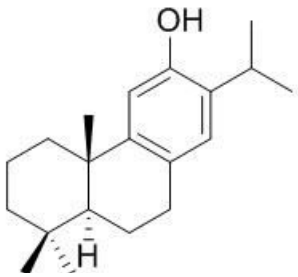
Catalog No.: CFN92178

Cas No.: 514-62-5

Purity: > 95%

M.F: $C_{20}H_{30}O$

M.W: 286.45



Physical Description: Powder

Synonyms:

3-Phenanthrenol,4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, (4bS,8aS)-; trans-Ferruginol ; (+)-Ferruginol;

3-Phenanthrenol,4b,5,6,7,8,8a,9,10-octahydro-4b,8,8-trimethyl-2-(1-methylethyl)-, (4bS-trans)-;Podocarpa-8,11,13-trien-12-ol, 13-isopropyl- (7CI,8CI).

[Intended Use]

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

[Source]

The herbs of *Salvia yunnanensis.*

[Biological Activity or Inhibitors]

Ferruginol, a bioactive compound isolated from a Chilean tree (Podocarpaceae), has anti-fungal, anti-bacterial, cardioprotective, anti-oxidative, anti-plasmodial and anti-ulcerogenic actions; ferruginol also has anti-tumoral activity, it induces PC3 cell death via activation of caspases as well as apoptosis-inducing factor (AIF) by its translocation into the nucleus, the anti-tumoral activity of ferruginol might be related to redox status modulation.[1]

Ferruginol acts as gastroprotective increasing the PGs content, protecting the cells against lipid peroxidation and improving the gastric ulcer healing by a stimulating effect on the cell proliferation, it may as a potential new anti-ulcerogenic drug.[2]

Ferruginol and some phthalimide containing analogues have potential antimalarial activity with low cytotoxicity in mammalian cells. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Methanol- 1% Acetic acid H2O=90:10;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Jesus M B D, Zambuzzi W F, Sousa R R R D, *et al. Biochimie, 2008, 90(6):843-54.*

[2] Rodríguez J A, Theoduloz C, Yáñez T, *et al. Life Sci., 2006, 78(21):2503-9.*

[3] González M A, Clark J, Connelly M, *et al. Bioorg. Med. Chem. Lett., 2014, 24(22):5234-7.*

[4] Wei Y, He J, Qin H, *et al. Biomed. Chromatogr., 2009, 23(10):1116-20.*

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