[ Product Information ]

Name: Falcarindiol
Catalog No.: CFN98220
Cas No.: 225110-25-8
Purity: >98%
M.F: C_{17}H_{24}O_{2}
M.W: 260.37
Physical Description: Oil
Synonyms: (3R,8S)-Falcarindiol; 3(R),8(S),9(Z)-Falcarindiol;
(3R,8S,9Z)-1,9-Heptadecadiene-4,6-diyne-3,8-diol.

[ Intended Use ]

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

[ Source ]

The roots of Angelica sinensis.
[Biological Activity or Inhibitors]

Falcarindiol has antimutagenic activity, can suppress the mutagenicity of furylfuramide and 3-amino-1,4-dimethyl-5H-pyrido[4,3-b]indole (Trp-P-1).[1]

Falcarindiol inhibits nitric oxide-mediated neuronal death in lipopolysaccharide-treated organotypic hippocampal cultures, it has neuroprotective activity.[2]

Falcarindiol has inhibitory activity against human gastric adenocarcinoma (MK-1) cell growth. [3]

Falcarindiol is a diacetylenic natural product containing unique carbon-carbon triple bonds, it has protective effects against CCl(4) toxicity, the effects might, in part, be explained by anti-lipid peroxidation activity associated with the induction of the GSTs including GSTA4.[4]

Falcarindiol has antifungal activity.[5]

Falcarindiol can strongly inhibit the growth of Micrococcus luteus and Bacillus cereus, with a minimum inhibitory concentration (MIC) value of 50 microg ml(-1), and it shows cytotoxicity against IEC-6 cells with an IC50 value of 20 microM after 48 h of exposition. suggests that it could be potentially used in food manufactures and cosmetology as preservative agents and biopesticides, or in medicine as new antibiotics.[6]

Falcarindiol has antitumor activity, it promotes cancer cell death by inducing endoplasmic reticulum stress.[7]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Acetonitrile-H2O ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 245 nm.
**Storage**

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

**References**


**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