**Natural Products** 



# **Zedoarondiol Datasheet**

5<sup>th</sup> Edition (Revised in January, 2017)

#### [ Product Information ]

Name: Zedoarondiol

Catalog No.: CFN92652

Cas No.: 98644-24-7

**Purity:** > 95%

**M.F:** C<sub>15</sub>H<sub>24</sub>O<sub>3</sub>

**M.W:** 252.4



Physical Description: Cryst

Synonyms: (1R, 3aR, 4S, 8aS) - Octahydro-1, 4-dihydroxy-1, 4-dimethyl-7-(1-methylethyliden)) and a standard strength of the standard stren

e)-6(1H)-azulenone.

# [Intended Use]

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

# [Source]

The rhizome of Curcuma phaeocaulis.

# [Biological Activity or Inhibitors]

Zedoarondiol has anti-inflammatory properties, it inhibits iNOS, COX-2, and pro-

inflammatory cytokine expressions by suppressing the phosphorylations of IKK and MAPKs, and by subsequently inactivating the NF-kappaB pathway.<sup>[1]</sup>

Zedoarondiol inhibits platelet-derived growth factor-BB (PDGF-BB) -induced vascular smooth muscle cells (VSMCs) proliferation via AMPK-mediated down-regulation of the mTOR/p70S6K pathway and up-regulation of the p53/p21 pathway, suggests that zedoarondiol may be a promising compound against atherosclerosis and in-stent restenosis.<sup>[2]</sup>

Zedoarondiol shows potent protective effect on D-galactosamine/lipopolysaccharide -induced acute liver injury in mice.<sup>[3]</sup>

#### [Solvent]

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

#### [ HPLC Method ]<sup>[4]</sup>

Mobile phase: Acetonitrile-H2O,gradient elution; Flow rate:1.0 ml/min; Column temperature: 35°C; The wave length of determination:256 nm.

# [ Storage ]

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

# [ References ]

[1] Woong C, Joowon N, Kang H J, et al. Int. Immunopharmacol., 2009 Aug;9(9):1049-57.

[2] Mao H, Tao T, Song D, et al. Cell Physiol. Biochem., 2016;40(6):1506-20.

[3] Matsuda H, Ninomiya K, Morikawa T, *et al. Bioorg. Med. Chem. Lett.*,1998 Feb 17;8(4): 339-44.

[4] Zhu J J, An Y W, Hu G, et al. Molecules, 2013, 18(2):2110-21.

# [ 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