

Curcumol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Curcumol

Catalog No.: CFN99187

Cas No.: 4871-97-0

Purity: > 98%

M.F: C₁₅H₂₄O₂

M.W: 236.35

Physical Description: White needle cryst.

Synonyms:(3S,5S,6S,8aS)-3-methyl-8-methylidene-5-(propan-2-yl)octahydro-6H-3a,6-e poxyazulen-6-ol.

[Intended Use]

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

[Source]

The rhizomes of Curcuma longa L.

[Biological Activity or Inhibitors]

Curcumol isolated from Rhizoma Curcumae, a common traditional Chinese medicine, has

been reported to possess antitumor effects, the anti-cancer activity of curcumol, which

was related to a significant inhibition of IGF-1R and activation of p38 MAPKs, indicating

that curcumol may be a potential anti-tumor agent for colorectal carcinoma therapy;it

induces cell death in a dominant apoptotic fashion via the caspases-independent

mitochondrial pathway in ASTC-a-1 cells; it has inhibitory effect on women cancer cells

and synthesis of RNA.[1-3]

Curcumol exhibits anti-inflammatory properties by interfering with the JNK-mediated AP-1

pathway in lipopolysaccharide-activated RAW264.7 cells, it may be a potential lead

compound for a novel anti-inflammatory drug because of its inhibitory activity on the

production of various inflammatory mediators.[4]

Curcumol is a novel anti-seizure agent which inhibited neuronal excitability through

enhancing GABAergic inhibition, it has inhibitory effects on the excitability of hippocampal

neurons in culture, the basal locomotor activity of freely moving animals, and the

chemically induced seizure activity in vivo.[5]

[Solvent]

Chloroform, Dichloromethane, Diethyl ether, DMSO, Acetone, etc.

[HPLC Method]^[6]

Mobile phase: Acetonitrile-1%Phosphoric acid H2O, gradient eiution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 213 nm.

[Storage]

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

[References]

[1] Zhang W, Wang Z, Chen T. Med. Oncol., 2011, 28(1):307-14.

[2] Wang J, Huang F, Bai Z, et al. Int. J. Mol .Sci., 2015, 16(8):19851-67.

[3] Lichuni X U, Bian K, Liu Z, et al. Tumor, 2005, 25(6):570-2.

[4] Xi C, Zong C, Yuan G, et al. Eur. J. Pharmacol., 2013, 723(1):339-45.

[5] Ding J, Wang J J, Huang C, et al. Neuropharmacology, 2014, 81(6):244-55.

[6] Sun Y T, Liu S C, Zhang Z Q. Chinese Archives of Traditional Chinese Medicine, 2010(2):391-2.

[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