Natural Products

ChemFaces

Oridonin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Oridonin

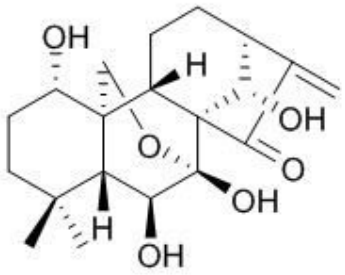
Catalog No.: CFN99164

Cas No.: 28957-04-2

Purity: > 98%

M.F: $C_{20}H_{28}O_6$

M.W: 364.43



Physical Description: Yellow cryst.

Synonyms:(1S,4AR,5S,6S,14S)-1,5,6,14-Tetrahydroxy-4,4-dimethyl-8-methylenedecahydro-1H-6,11b-(epoxymethano)-6a,9-methanocyclohepta[a]naphthalen-7(8H)-one.

[Intended Use]

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

[Source]

The herb of *Rabdosia rubescens (Hamst.) C.Y.Wu et Hsuan.*

[Biological Activity or Inhibitors]

Oridonin inhibits the proliferation of cancer cells via apoptosis and cell cycle arrest with p53 playing a central role in several cancer types which express the wild-type p53 gene, it may be a novel, adjunctive therapy for a large variety of malignancies and probably represents one of the major, active components of PC-SPES(an eight herbal mixture that was shown to have activity against prostate cancer).[1]

Oridonin may be a potential antileukemia agent that targets AE oncoprotein at residue D188 with low adverse effect, and may be helpful for the treatment of patients with t(8;21) acute myeloid leukemic (AML).[2]

Oridonin confers protection against arsenic-induced toxicity through activation of the Nrf2-mediated defensive response, and the feasibility of using natural compounds targeting Nrf2 as a therapeutic approach to protect humans from various environmental insults that may occur daily.[3]

Oridonin remarkably suppresses activations of Akt/mTOR, Raf/MEK and STAT5 pathway in these primary specimens and oridonin with imatinib exerts synergetic suppressive effects on mTOR, STAT5 and LYN signaling in one imatinib resistant patient specimen. [4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Methanol : H2O=50:50;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 241 nm.

[Storage]

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

[References]

[1] Ikezoe T, Chen S S, Tong X J, *et al. Int. J. Oncol., 2003, 23(4):1187-93.*

[2] Zhou G B, Kang H, Wang L, *et al. Blood, 2007, 109(8):3441-50.*

[3] Du Y, Villeneuve N F, Wang X J, *et al. Environ. Health Persp., 2008, 116(9):1154-61.*

[4] Yong G, Shan Q, Gong Y, *et al. Cancer Biol. Ther., 2012, 13(13):1244-54.*

[5] Mei Y, Jie X, Zhao J, *et al. J. Chromatogr. B., 2008, 869(1-2):138-41.*

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