Natural Products

ChemFaces

Aloeemodin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aloeemodin

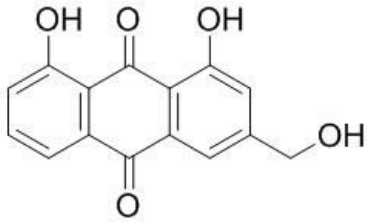
Catalog No.: CFN98749

Cas No.: 481-72-1

Purity: > 98%

M.F: $C_{15}H_{10}O_5$

M.W: 270.2



Physical Description: Pale yellow powder

Synonyms: 1,8-Dihydroxy-3-(hydroxymethyl)anthracene-9,10-dione.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Aromatics;
10. Others.

[Source]

The root of *Rheum palmatum L.*

[Biological Activity or Inhibitors]

Aloeemodin is able to interact with DNA under certain in vitro conditions, however, in vivo it is negative did not indicate a genotoxic potential, thus, it may be assumed that a genotoxic risk for man might be unlikely.[1]

Aloeemodin has inhibition of β-amyloid aggregation, and has neuroprotective effect on primary hippocampal cells against β-amyloid induced toxicity.[2]

Aloeemodin has anti-fibrotic effects, perhaps through downregulation of the expression of Smad2 mRNA and TGF-β1,TIMP1,and type Ⅰ and Ⅲ collagen proteins,and upregulation of the expression of Smad7 mRNA.[3]

Aloeemodin may have therapeutic effects on liver fibrosis induced by Schistosoma of liver through the effects of TGF-β1,VEGF and FAK expression.[4]

Aloeemodin can suppress the proliferation of HGC-27 cell to induce apoptosis and block cell cycle.[5]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method][6]

Mobile phase: Methanol- 0.1% Phosphoric acid H2O =80:20;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Heidemann A, Völkner W, Mengs U. *Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis, 1996, 367(3):123-33.*

[2] Ho S L, Poon C Y, Lin C, *et al. Current Alzheimer Research, 2015, 12(5):424-33.*

[3] Wu Y Y, He S S. *World Chinese Journal of Digestology, 2009, 17(27):2778-83.*

[4] Dan X U, Zhou W, Yu HG. *Chinese Journal of Integrated Traditional & Western Medicine on Liver Diseases, 2012, 22(02):107-9.*

[5] Nan J, Qin Y X, Liu J, *et al. J. Modern Oncol., 2008, 16(06):919-21.*

[6]Chen C S, Sang X F. *Chinese Journal of Health Laboratory Technology, 2011(05): 1088-9.*

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