

Aloin B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aloin B

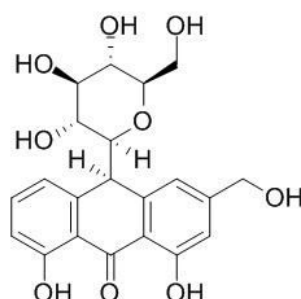
Catalog No.: CFN90434

Cas No.: 28371-16-6

Purity: >=98%

M.F: C₂₁H₂₂O₉

M.W: 418.39



Physical Description: Yellow powder

Synonyms: (10S)-1,8-dihydroxy-3-(hydroxymethyl)-10-[3,4,5-trihydroxy-6-(hydroxymethyl) tetrahydropyran-2-yl]-10H-anthracen-9-one.

[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 herbs of *Aloe vera* L.

[Biological Activity or Inhibitors]

The extract of *A. vera* and its active ingredient aloin cause melanin aggregation leading to skin lightening via alpha adrenergic receptor stimulation, the result opens new vistas for the use of *A. vera* regarding its clinical application as a new nontoxic melanolytic agent for the treatment of hyperpigmentation. ^[1]

Dietary supplementation of aloe components (aloin, aloesin and aloe-gel) can ameliorate intestinal inflammatory responses in a 3% dextran sulfate sodium (DSS)-induced ulcerative colitis rat model, in particular, aloesin is the most potent inhibitor.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=22:78 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Ali S A, Galgut J M, Choudhary R K. *Planta Med.*, 2012, 78(8):767-71.

[2] Park M Y, Kwon H J, Sung M K. *Life Sci.*, 2011, 88(11-12):486-92.

[3] Logaranjan K, Devasena T, Pandian K. *Am. J. Anal. Chem.*, 2013, 4(10):600-5.

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