Natural Products

ChemFaces

Corytuberine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Corytuberine

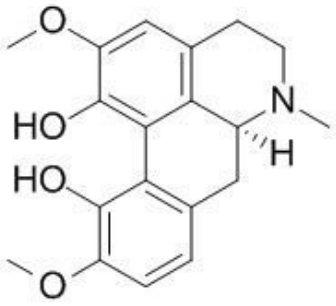
Catalog No.: CFN90528

Cas No.: 517-56-6

Purity: > 98%

M.F: $C_{19}H_{21}NO_4$

M.W: 327.37



Physical Description: Powder

Synonyms:(6aS)-2,10-Dimethoxy-6-methyl-5,6,6a,7-tetrahydro-4H-dibenzo[de,g]quinoline-1,11-diol;2,10-Dimethoxy-6aa-aporphine-1,11-diol.

[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 *Caltha palustris L.*

[Biological Activity or Inhibitors]

Corytuberine is a potent lipoxygenase inhibitor, the mechanism of lipoxygenase inhibition by it may be linked to the inhibition of lipid hydroperoxide substrate accumulation, products of lipoxygenase metabolism play a role in the pathogenesis of psoriasis, thus, corytuberine may contribute to the therapeutic effect of psoriasis.[1]

Corytuberine is a malonyl-CoA:acyl carrier protein transacylase (MCAT) inhibitor, it may be used as a potential lead compound in the discovery of the antibacterial agents using Helicobacter pylori strain SS1 (HpMCAT) as target.[2]

Corytuberine (6.3 and 12.5 mg/kg, i.p.) shows very strong antinociceptive activity. [3]

Corytuberine displays cytotoxicity against SMMC-7721 with IC_{50} values of 73.22 ± 2.35 u M.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Acetonitrile-0.2% Phosphoric acid and 0.4% BmimBF4 in water adjusted to pH 6.3 by the addition of triethylamine solution,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Misík V, Bezáková L, Máleková L, *et al. Planta Med., 1995, 61(4):372-3.*

[2] Liu W, Han C, Hu L, *et al. Febs Lett., 2006, 580(580):697-702.*

[3] Nishiyama Y, Moriyasu M, Ichimaru M, *et al. J. Nat. Med., 2009, 64(1):9-15.*

[4] Sun R, Jiang H, Zhang W, *et al. Evid. Based Complement. Alternat .Med. 2014;2014: 580483.*

[5] Chen Y, Li R, Gao R, *et al. Anal. Methods-UK, 2016, 8(12):2645-52.*

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