Natural Products

ChemFaces

Citreorosein Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Citreorosein

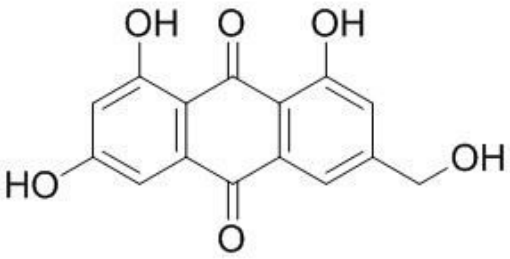
Catalog No.: CFN98750

Cas No.: 481-73-2

Purity: > 98%

M.F: $C_{15}H_{10}O_6$

M.W: 286.2



Physical Description: Yellow powder

Synonyms:1,3,8-Trihydroxy-6-(hydroxymethyl)anthracene-9,10-dione; ω-Hydroxyemodin;1,3,8-Trihydroxy-6-hydroxymethylanthraquinone.

[Intended Use]

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

[Source]

The radixes of *Polygoni cuspidati.*

[Biological Activity or Inhibitors]

Citreorosein, a naturally occurring anthraquinone derivative isolated from Polygoni cuspidati radix, attenuates cyclooxygenase-2-dependent prostaglandin D2 generation by blocking Akt and JNK pathways in mouse bone marrow-derived mast cells, it represents a potential therapeutic approach for the treatment of inflammatory diseases.[1]

Citreorosein attenuates degranulation and LTC 4 generation through the suppression of multiple step signaling and would be beneficial for the prevention of allergic inflammation.[2]

Bioassay directed isolation of C. nigricans leaf extract yielded anthraquinones emodin, citreorosein, and emodic acid and a flavonoid, luteolin, they can kill mosquito larvae Anopheles gambiaea adult B. tabaci, thus the extract of C. nigricans has the potential to be used as an organic approach to manage some of the agricultural pests.[3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Methanol-H2O-Phosphoric acid =80:20:0.9 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm..

[Storage]

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

[References]

[1] Lu Y, Suh S J, Li X, *et al. Food Chem. Toxicol. , 2012, 50(3–4):913-9.*

[3] Lu Y, Li Y, Jahng Y, *et al. Mol. Cell Biochem., 2012, 365(1-2):333-41.*

[3] Jing L L, Cha H C, Lee S H, *et al. Arch. Pharm. Res., 2012, 35(3):447-54.*

[4] Manojlovic N T, Vasiljevic P J, Gritsanapan W, *et al. Biol. Res., 2010, 43(43):169-76.*

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