

3-Isomangostin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3-Isomangostin

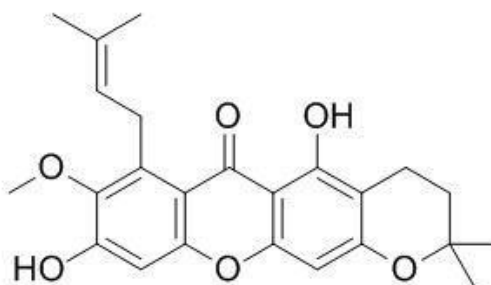
Catalog No.: CFN99724

Cas No.: 19275-46-8

Purity: >=98%

M.F: C₂₄H₂₆O₆

M.W: 410.46



Physical Description: Yellow powder

Synonyms: 9-Hydroxycalabaxanthone; 5,9-Dihydroxy-8-methoxy-2,2-dimethyl-7-(3-methyl-but-2-enyl)-3,4-dihydro-2H-pyrano[3,2-b]xanthen-6-one.

[Intended Use]

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

[Source]

The fruits of *Garcinia mangostana*.

[Biological Activity or Inhibitors]

3-Isomangostin has free radical scavenging activity.^[1]

3-Isomangostin, mangostanol, garcinone C and α -mangostin are acetylcholinesterase selective inhibitors.^[2]

3-Isomangostin shows antiplasmodial activity with IC₅₀ values in the range of 4.71-11.40 μ M. ^[3]

3-Isomangostin is a potent human aldose reductase inhibitor with an IC₅₀ of 3.48 μ M.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol–0.2% Formic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 245 nm.

[Storage]

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

[References]

[1] Dharmesh S, Nanjarajurs S, Bhimangouder S, *et al.* *International Journal of Biotechnology for Wellness Industries*, 2015, 3(4):111-20.

[2] Khaw K Y, Choi S B, Tan S C, *et al.* *Phytomedicine.*, 2014, 21(11):1303-9.

[3] Lyles J T, Negrin A, Khan S I, *et al.* *Planta Med.*, 2014, 80(8-9):676-81.

[4] Fatmawati S, Ersam T, Shimizu K. *Phytomedicine.*, 2015, 22(1):49-51.

[5] Kongkiatpaiboon S, Vongsak B, Machana S, *et al.* *Journal of King Saud University - Science*, 2015, 43(2):131-5.

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