

Beta-mangostin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Beta-mangostin

Catalog No.: CFN99723

Cas No.: 20931-37-7

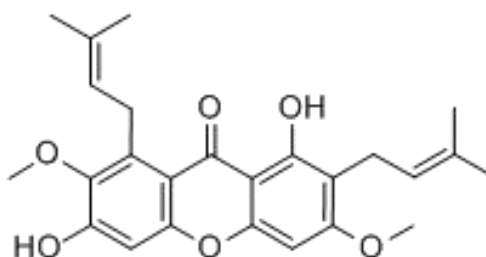
Purity: >=98%

M.F: C₂₅H₂₈O₆

M.W: 424.49

Physical Description: Powder

Synonyms: 1,6-Dihydroxy-3,7-dimethoxy-2,8-bis(3-methylbut-2-en-1-yl)-9H-xanthen-9-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]

Beta-mangostin shows cytotoxic activity against the human lung cancer cell line (NCI-H187), it also shows antimalarial activity against Plasmodium falciparum with IC(50) values of 7.2 microg/ml.^[1]

Alpha-and beta-mangostins exhibit strong inhibitory effect against Mycobacterium tuberculosis with the minimum inhibitory concentration (MIC) value of 6.25 microg/ml. ^[2]

[Solvent]

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

[HPLC Method]^[3]

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

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Laphookhieo S, Syers J K, Kiattansakul R, *et al. Chem. Pharmaceut. Bull.*, 2006, 37(44):745-7.

[2] Suksamrarn S, Suwannapoch N, Phakhodee W, *et al. Chem. Pharmaceut. Bull.*, 2003, 51(7):857-9.

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

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