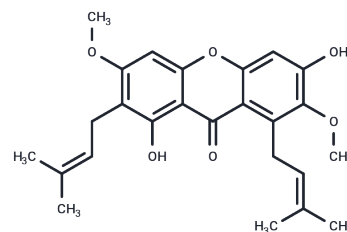


Beta-mangostin

Chemical Properties

CAS No. :	20931-37-7
Formula:	C ₂₅ H ₂₈ O ₆
Molecular Weight:	424.49
Appearance:	no data available
Storage:	keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Beta-mangostin (β-Mangostin) is a xanthone compound with antibacterial and antimalarial activities. Beta-mangostin present in <i>Cratoxylum arborescens</i> and exhibits antimycobacterial activity against <i>Mycobacterium tuberculosis</i> with an MIC of 6.25 µg/mL. Beta-mangostin possesses in vitro antimalarial activity against <i>Plasmodium falciparum</i> , with an IC ₅₀ of 3.00 µg/mL. Beta-mangostin has potent anticancer activity against various cancers (such as hepatocellular carcinoma, leukaemic).
Targets(IC ₅₀)	Apoptosis,Antibacterial,Parasite
In vitro	Beta-Mangostin induces the intrinsic apoptosis pathway in HL60 cells by generating reactive oxygen species and suppressing the HSP70 gene, coupled with a G0/G1 cell-cycle arrest[2].

Solubility Information

Solubility	DMSO: 24 mg/mL (56.53 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3558 mL	11.7788 mL	23.5577 mL
5 mM	0.4712 mL	2.3558 mL	4.7115 mL
10 mM	0.2356 mL	1.1779 mL	2.3558 mL
50 mM	0.0471 mL	0.2356 mL	0.4712 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Syam S, et al. β Mangostin suppress LPS-induced inflammatory response in RAW 264.7 macrophages in vitro and carrageenan-induced peritonitis in vivo. J Ethnopharmacol. 2014 Apr 28;153(2):435-45.

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