

Garcinone C

Chemical Properties

CAS No. : 76996-27-5

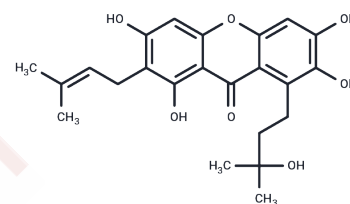
Formula: C₂₃H₂₆O₇

Molecular Weight: 414.45

Storage: Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Garcinone C is a xanthone derivative extracted from <i>Garcinia oblongifolia</i> Champ with anti-inflammatory, astringency, and granulation-promoting activities. Garcinone C is an AChE inhibitor and has potential cytotoxic effects on certain cancers.
Targets(IC50)	ATM/ATR,Hedgehog/Smoothened,CDK,STAT,AChR,Antifection
In vitro	Garcinone C is active against both of pathogenic (MIC =100 µg/ml) and non-pathogenic leptospira (MIC = 200 µg/ml)[1]. Garcinone C stimulates the expression levels of ATR and 4E-BP1, while efficiently inhibiting the expression levels of cyclin B1, cyclin D1, cyclin E2, cdc2, Stat3, and CDK7. Garcinone C significantly inhibits cell viability of the human nasopharyngeal carcinoma (NPC) cell lines CNE1, CNE2, HK1, and HONE1 in a time- and dose-dependent manner[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4128 mL	12.0642 mL	24.1284 mL
5 mM	0.4826 mL	2.4128 mL	4.8257 mL
10 mM	0.2413 mL	1.2064 mL	2.4128 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Seesom W, et al. Antileptospiral activity of xanthenes from *Garcinia mangostana* and synergy of gamma-mangostin with penicillin G. *BMC Complement Altern Med*. 2013 Jul 19;13:182.

Xia Y, et al. Garcinone C exerts antitumor activity by modulating the expression of ATR/Stat3/4E BP1 in nasopharyngeal carcinoma cells. *Oncol Rep*. 2018 Mar;39(3):1485-1493.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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