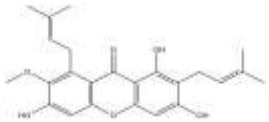
PRODUCT: α-Mangostin

ALTERNATE NAME: 1,3,6-Trihydroxy-7-methoxy-2,8-bis(3-methylbut-2-en-1-yl)-9H-xanthen-9-one; Mangostine; NSC27953

CATALOG #: B1059-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{24}H_{26}O_6$

MOLECULAR WEIGHT: 410.46

CAS NUMBER: 6147-11-1

APPEARANCE: Pale yellow to yellow solid

SOLUBILITY: DMSO (>50 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: Store at -20℃. Protect from air and light

DESCRIPTION: α-Mangostin, a naturally occurring xanthone, displays both fast-binding and slow-binding inhibitions to FAS *in vitro*. It inhibits FAS overall reaction with an IC_{50} value of 5.54 μM noncompetitively with respect to NADPH, and partially competitively against both substrates acetyl-CoA and malonyl-CoA. Its inhibitory activity is higher than classical FAS inhibitors such as C75, EGCG and curcumin. It induces apoptosis in breast cancer cells by inhibition of FAS.

REFERENCES:

Kritsanawong, S., *et al.* (2016). *Int.J. Oncol.* **48,** 2155-2165.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:
Cerulenin **(1579)**
Curcumin, Curcuma Longa **(1850)**
(-)-Epigallocatechin Gallate **(1841)**
FAS Inhibitor, C75 **(1547)**
α-Mangostin (**B1059)**

USAGE: ***FOR RESEARCH CH USE ONLY! Not to be used in humans***

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