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°C. 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.


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)

REFERENCES:

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