

Product Name: α-Mangostin

Catalog No.: 6856

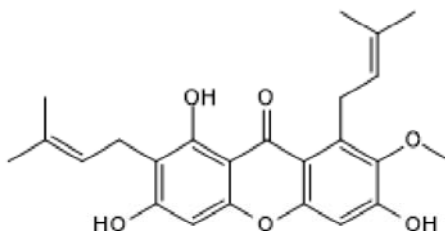
Batch No.: 1

CAS Number: 6147-11-1

IUPAC Name: 1,3,6-Trihydroxy-7-methoxy-2,8-bis(3-methyl-2-buten-1-yl)-9H-xanthen-9-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₆O₆
Batch Molecular Weight: 410.47
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.23	6.38	
Found	70.38	6.42	

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Xanthone derivative. Inhibits proliferation and induces apoptosis selectively in pancreatic CSCs and cancer cell lines. Also suppresses the invasive and metastatic ability of pancreatic CSCs by modulation of cadherin expression and suppressing the transcription factors Snail and Slug. Attenuates the expression of Nanog and pluripotency promoting transcription factors, and inhibits Nanog binding. Downregulates the PI 3-K/Akt pathway. Inhibits self-renewal of CSCs isolated from human primary tumors and KrasG12D mice. Inhibits MRSA and VRE. Antibacterial, antifungal, antimalarial, anticarcinogenic, antiatherogenic, anti-inflammatory, antioxidant... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

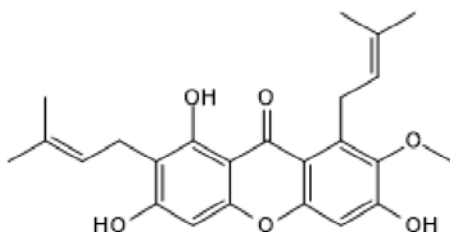
Batch Molecular Formula: C₂₄H₂₆O₆

Batch Molecular Weight: 410.47

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ma et al (2019) Inhibition of pancreatic cancer stem cell characteristics by α-Mangostin: Molecular mechanisms involving Sonic hedgehog and Nanog. *J.Cell Mol.Med.* **23** 2719. PMID: 30712329.

Wang et al (2017) Pharmacology of mangostins and their derivatives: A comprehensive review. *Chin.J.Nat.Med.* **15** 81. PMID: 28284429.

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