

Catalog # 10-3433

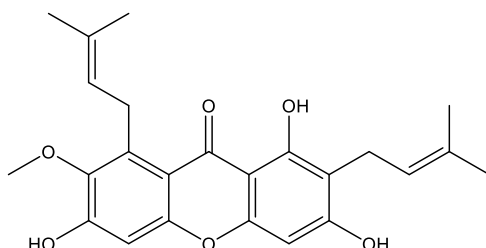
α -Mangostin

CAS# 6147-11-1

Mangostine; Mangostin

1,3,6-Trihydroxy-7-methoxy-2,8-bis(3-methylbut-2-en-1-yl)-9H-xanthen-9-one

Lot # X108772



α -Mangostin is a xanthone natural product that has historically been used in traditional folk medicine.¹ It is a potent agonist of human STING (Stimulator of Interferon Genes) and also weakly activates mouse STING.² Induces IFN- β production and repolarizes human monocyte-derived M2 macrophages to M1. Improves insulin secretion and protects INS-1 cells from streptozotocin-induced damage.³ Suppresses the metastasis of human renal carcinoma cells.⁴ Synergizes with kinase inhibitors in suppression of proliferation of SK-MEL-2 malignant melanoma cells.⁵

- 1) Mohan *et al.* (2018), *An anti-inflammatory molecular mechanism of action of α -mangostin, the major xanthone from the pericarp of *Garcinia mangostana*: an in silico, in vitro and in vivo approach*; Food Funct., **9** 3860
- 2) Zhang *et al.* (2018), *Identification of α -Mangostin as an Agonist of Human STING*; Chem. Med. Chem., Aug. 6 *epub ahead of print*
- 3) Lee *et al.* (2018), *Alpha-Mangostin Improves Insulin Secretion and Protects INS-1 Cells from Streptozotocin-induced Damage*; J. Mol. Sci., **19** E1484
- 4) Chen *et al.* (2017), *Alpha-Mangostin Suppresses the Metastasis of Human renal Carcinoma Cells by Targeting MEK/ERK Expression and MMP-9 Transcription Activity*; Cell Physiol. Biochem., **44** 1460
- 5) Xia and Sun (2018), *Synergistic inhibition of cell proliferation by combined targeting with kinase inhibitors and dietary xanthone is a promising strategy for melanoma treatment*; Clin. Exp. Dermatol., **43** 149

PHYSICAL DATA

Molecular Weight:	410.46
Molecular Formula:	C ₂₄ H ₂₆ O ₆
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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