

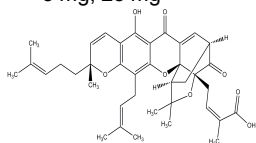
Product: Gambogic acid

ALTERNATE NAME: (Z)-4-((1S,3aR,5S,11R,14aS)-8-hydroxy-2,2,11-trimethyl-13-(3-methylbut-2-en-1-yl)-11-(4-methylpent-3-en-1-yl)-4,7-dioxo-2,3a,4,5,7,11-hexahydro-1H-1,5-methanofuro[3,2-g]pyrano[3,2-b]xanthen-3a-yl)-2-methylbut-2-enoic acid

CATALOG #: 2785-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₃₈H₄₄O₈

MOLECULAR WEIGHT: 628.75

CAS NUMBER: 2752-65-0

APPEARANCE: Orange solid

SOLUBILITY: DMSO (>25 mg/ml) or EtOH (~20 mg/ml)

PURITY: ≥95%

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

DESCRIPTION: Gambogic acid is a plant-derived natural product that acts as a caspase activator and apoptosis inducer, which causes an irreversible arrest in the G2/M phase of the cell cycle. It causes a decrease of Bcl-2 gene and an increase in Bax gene expression, which may result in apoptosis. Gambogic also acts as an inhibitor of A1 and Bcl-2 family proteins, including Bcl-xl, Bcl-2, Bcl-w, Bcl-B, Bfl-1, and Mcl-1.

REFERENCES: Kasibhatla, S., *et al.* (2005). *Proc. Natl. Acad. Sci. USA* **102**, 12095-12100.

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

RELATED PRODUCTS:

Actinomycin D (Cat. No. 1036-50, 50MG, 5MG)
Anisomycin (Cat. No. 1549-10)
Apoptosis activator 2 (Cat. No. 2784-5, 25)
BAM7 (Cat. No. 2451-5, 25)
Berberine chloride (Cat.No. 1830-100, 500)
Brefeldin A (Cat. No. 1560-5, 50)
Camptothecin (Cat. No. 1039-1, 100, 50MG, 500MG)
Carboplatin (Cat. No. 1553-100)
Colchicine (Cat. No.1519-1000)
Cycloheximide (Cat. No. 1041-1, 1G)
Cyclosporine A (Cat. No. 1522-100)
Daunorubicin HCl (Cat. No. 1524-10, 50, 500)
Dexamethasone (Cat. No. 1042-1, 1G, 10G)
Doxorubicin HCl (Cat. No. 1527-5)
Etoposide (Cat. No. 1043-100, 25Mg, 250MG)
LY573636 (Cat. No. 2297-5, 25)
PAC-1 (Cat. No. 1654-10)
Ready-to-Use Apoptosis Inducer Set (Cat. No. K121-5)