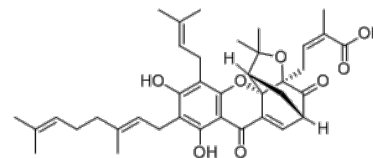

Product Name	: Gambogenic acid
Cat. No.	: PC-35432
CAS No.	: 173932-75-7
Molecular Formula	: C ₃₈ H ₄₆ O ₈
Molecular Weight	: 630.778
Target	: Histone Methyltransferase (HMTase)
Solubility	: 10 mM in DMSO



Biological Activity

Gambogenic acid (GNA) is a polyprenylated xanthone isolated from gamboge, shows potent antitumor activity and can effectively inhibit the survival and proliferation of cancer cells.

Gambogenic acid specifically and covalently binds to Cys668 within the **EZH2-SET domain**, triggers EZH2 degradation (IC₅₀=8.6 μM) through COOH terminus of Hsp70-interacting protein (CHIP)-mediated ubiquitination.

Gambogenic acid synergistically potentiates bortezomib-induced apoptosis in multiple myeloma.

Gambogenic acid also induces proteasomal degradation of CIP2A and sensitizes hepatocellular carcinoma to anticancer agents.

References

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Liu P, et al. *J Cancer.* 2017 Sep 16;8(16):3278-3286.

Wang X, et al. *EMBO J.* 2017 May 2;36(9):1243-1260.

Li F, et al. *Exp Ther Med.* 2017 May;13(5):2456-2462.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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