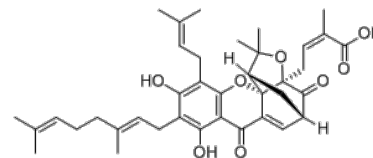


**Product Name** : Gambogenic acid  
**Cat. No.** : PC-35432  
**CAS No.** : 173932-75-7  
**Molecular Formula** : C<sub>38</sub>H<sub>46</sub>O<sub>8</sub>  
**Molecular Weight** : 630.778  
**Target** : Histone Methyltransferase (HMTase)  
**Solubility** : 10 mM in DMSO



## 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, specifically and covalently binds to Cys668 within the **EZH2-SET domain**.

Gambogenic acid specifically and covalently binds to Cys668 within the **EZH2-SET domain**, triggers EZH2 degradation (IC<sub>50</sub>=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

Xu L, et al. *Cell Death Dis.* 2018 Feb 15;9(3):262.

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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