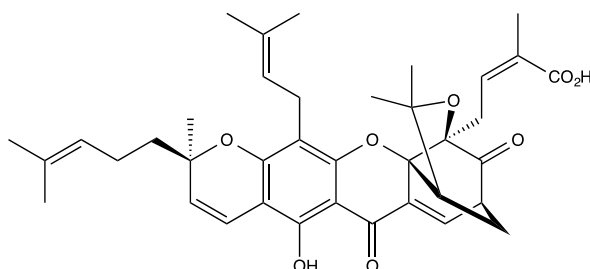


Catalog # 10-2188

Gambogic acid

CAS# 2752-65-0

Lot # X101907



Induces apoptosis in a variety of cell lines acting as an antagonist of Bcl-2 family proteins ($IC_{50} < 1 \mu M$)¹, however additional targets may contribute to its cytotoxicity. It suppresses cancer invasion and migration by inhibiting TGF β 1-induced epithelial-to-mesenchymal transition.² Potentiates the chemosensitivity of cancer cells to other agents.³ Down-regulates survivin, reversing docetaxel resistance in cancer cells.⁴

- 1) Zhai *et al.* (2008), *Gambogic acid is an antagonist of antiapoptotic Bcl-2 family proteins*; Mol.Cancer Ther. **7** 1639
- 2) Zhao *et al.* (2017), *Gambogic acid suppresses cancer invasion and migration by inhibiting TGF β 1-induced epithelial-to-mesenchymal transition*; Oncotarget **8** 27120
- 3) Wei *et al.* (2017), *Gambogic acid potentiates the chemosensitivity of colorectal cancer cells to 5-fluorouracil by inhibiting proliferation and inducing apoptosis*; Exp.Ther.Med. **13** 662
- 4) Wang *et al.* (2008), *Gambogic acid, a potent inhibitor of survivin, reverses docetaxel resistance in gastric cancer cells*; Cancer Lett. **262** 214

PHYSICAL DATA

Molecular Weight: 628.75
Molecular Formula: C₃₈H₄₄O₈
Purity: >98% by TLC
NMR: (Conforms)
Solubility: DMSO (up to 45 mg/ml), or ethanol (up to 50 mg/ml)
Physical Description: Orange solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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