**Gambojective 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-methano[3,2-g]pyran[3,2-b]xanthen-3a-yl)-2-methylbut-2-enolic acid

**CATALOG #:** 2785-5, 25

**AMOUNT:** 5 mg, 25 mg

**STRUCTURE:**

![Structure of Gambogic acid](image)

**MOLECULAR FORMULA:** C_{38}H_{44}O_{6}

**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.


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

**FOR RESEARCH USE ONLY! Not to be used on humans.**