

# Gossypol

## Catalog No: tcsc2106



### Available Sizes

**Size:** 100mg

**Size:** 200mg

**Size:** 500mg



### Specifications

**CAS No:**

303-45-7

**Formula:**

$C_{30}H_{30}O_8$

**Pathway:**

Apoptosis

**Target:**

Bcl-2 Family

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

BL 193

**Observed Molecular Weight:**

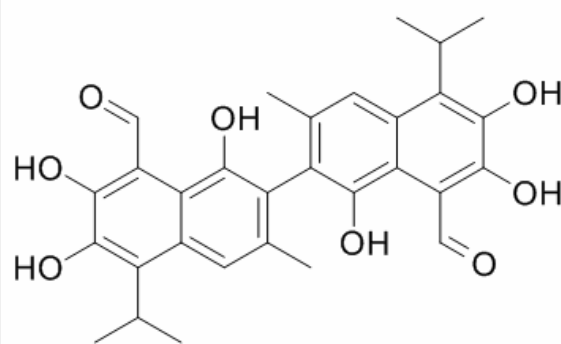
518.55

### Product Description

Gossypol, a natural product isolated from cottonseeds and roots, binds to **Bcl-xL** protein and **Bcl-2** protein with **K<sub>i</sub>**s of 0.5-0.6  $\mu$ M and 0.2-0.3 mM, respectively.

IC50 & Target: Ki: 0.5-0.6  $\mu$ M (Bcl-xL), 0.2-0.3 mM (Bcl-2)<sup>[1]</sup>

***In Vitro:*** Gossypol, a natural product isolated from cottonseeds and roots that has been studied as an anticancer agent. The racemic form of Gossypol [(±)-Gossypol] is tested in several clinical trials and is well tolerated. The racemic form Gossypol ((±)-Gossypol) binds to Bcl-xL protein with a K<sub>i</sub> of 0.5 to 0.6  $\mu$ M. (±)-Gossypol also potently binds to Bcl-2 protein with a K<sub>i</sub> value of 0.2-0.3 mM. The natural racemic Gossypol has two enantiomers, namely the (-)-Gossypol and (+)-Gossypol enantiomers. The racemic form and each of the enantiomers of Gossypol are tested against UM-SCC-6 and UM-SCC-14A in 6-day MTT assays. (-)-Gossypol exhibits greater growth inhibition relative to (±)-Gossypol than (+)-Gossypol in both cell lines tested (P[1]).



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!