

Gossypol (acetic acid)

Catalog No: tcsc2310



Available Sizes

Size: 200mg

Size: 500mg



Specifications

CAS No:

12542-36-8

Formula:

$C_{32}H_{34}O_{10}$

Pathway:

Apoptosis

Target:

Bcl-2 Family

Purity / Grade:

>98%

Solubility:

DMSO : 25 mg/mL (43.21 mM; Need ultrasonic)

Alternative Names:

(±)-Gossypol-acetic acid

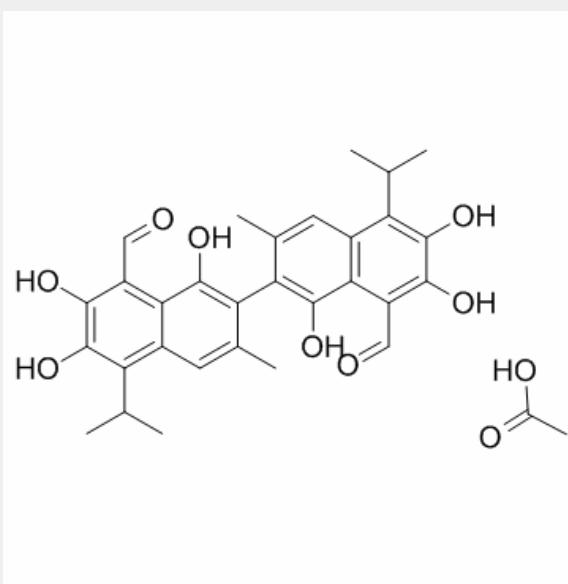
Observed Molecular Weight:

578.61

Product Description

Gossypol, a natural product isolated from cottonseeds and roots, binds to **Bcl-xL** protein and **Bcl-2** protein with **K_i**s of 0.5-0.6 μM and 0.2-0.3 mM, respectively.

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_i of 0.5 to 0.6 μ M. (±)-Gossypol also potently binds to Bcl-2 protein with a K_i 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 [P1].



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