

(S) -Gossypol (acetic acid)

Catalog No: tcsc5102



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

1189561-66-7

Formula:

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

Pathway:

Apoptosis

Target:

Bcl-2 Family

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

(S)-(+)-Gossypol acetic acid

Observed Molecular Weight:

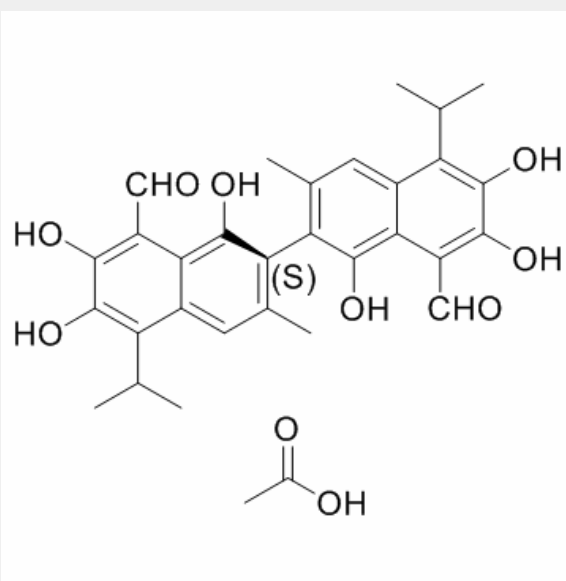
578.61

Product Description

(S)-Gossypol is the isomer of a natural product Gossypol. (S)-Gossypol binds to the BH3-binding groove of **Bcl-xL** and **Bcl-2** proteins with high affinity.

IC50 & Target: Bcl-2, Bcl-xL^[1]

In Vitro: The natural racemic Gossypol has two enantiomers, namely the (-)-Gossypol and (S)-Gossypol ((+)-Gossypol) enantiomers. (+)-Gossypol and (-)-Gossypol binds to Bcl-2 or Bcl-xL with similar binding affinities. (-)-Gossypol is more potent than (+)-Gossypol in inhibition of cell growth and induction of apoptosis. 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]).



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