

Product Name: Gossypol

Catalog No.: 1964

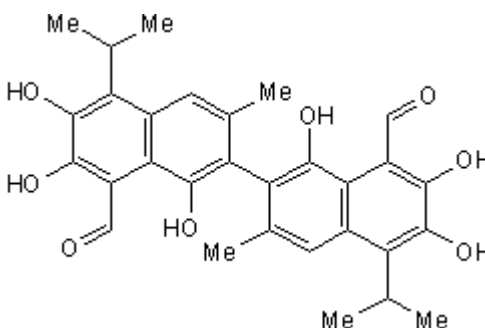
Batch No.: 3

CAS Number: 303-45-7

IUPAC Name: 1,1',6,6',7,7'-Hexahydroxy-3,3'-dimethyl-5,5'-bis(1-methylethyl)-[2,2'-binaphthalene]-8,8'-dicarboxaldehyde

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₀O₈
Batch Molecular Weight: 518.56
Physical Appearance: Yellow solid
Solubility: ethanol to 25 mM with gentle warming
DMSO to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Ethyl acetate)
HPLC: Shows >98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.49	5.83	
Found	69.32	5.83	0.02

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Lipophilic agent derived from cottonseed. Exhibits multiple biological effects including antifertility and anticancer activity. Proapoptotic; downregulates Bcl-2 and Bcl-XL. R-enantiomer available (Cat. No. 3367).

Physical and Chemical Properties:

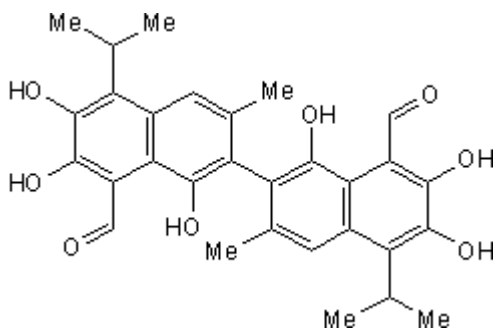
Batch Molecular Formula: C₃₀H₃₀O₈

Batch Molecular Weight: 518.56

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 25 mM with gentle warming

DMSO to 25 mM

In addition research has shown that this product rapidly decomposes in solution (Becattini *et al Chem. and Biol.* 11, 389, 2004) . Therefore we recommend that once a solution of this product is prepared it is stored at -20°C and used within 24 hours.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Zhang *et al* (2003) Molecular mechanism of gossypol-induced cell growth inhibition and cell death of HT-29 human colon carcinoma cells. *Biochem.Pharmacol.* **66** 93. PMID: 12818369.

Coutinh (2002) Gossypol: a contraceptive for men. *Contraception* **65** 259. PMID: 12020773.

Vander Jagt *et al* (2000) Gossypol: prototype of inhibitors targeted to dinucleotide folds. *Curr.Med.Chem.* **7** 479. PMID: 10702620.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956