



LKT Laboratories, Inc.

Gossypol

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Product Information

Product ID G5874

CAS No. 303-45-7

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

Synonym 2,2'-bis(8-Formyl-1,6,7-trihydroxy-5-isopropyl-3-methylnaphthalene)

Formula C₃₀H₃₀O₈

Formula Wt. 518.55

Melting Point 198

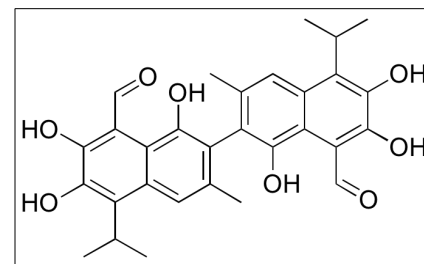
Purity ≥98%

Solubility Soluble in DMSO, methanol or ethanol. Insoluble in water.

Store Temp 4° C

Ship Temp Ambient

Description Gossypol is a polyphenol found in *Gossypium* that exhibits anti-fertility, antimalarial, immunosuppressive, antiviral, and anticancer chemotherapeutic activities. Gossypol inhibits calcineurin, PKC, and other kinases. Gossypol is under consideration for use as a male contraceptive as it induces spermatogenesis arrest. Gossypol also inactivates HIV-1 in vitro and inhibits viral entry of H5N1 influenza virus. In vitro, gossypol inhibits ConA-induced increases in NF-κB, NFAT, and AP-1 signaling, suppressing T cell activation in vitro. Gossypol also acts as a BH3 mimetic, inhibiting Bcl-2 and Bcl-xL, inducing G2/M phase cell cycle arrest in wild type and B-RAF mutant melanoma and myeloma cells.



Bulk quantities available upon request

Product ID **Size**

G5874 25 mg

G5874 100 mg

G5874 250 mg

References Jang GH, Lee M. BH3-mimetic gossypol-induced autophagic cell death in mutant BRAF melanoma cells with high expression of p21Cip1. Life Sci. 2014 Apr 25;102(1):41-8. PMID: 24625733.

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Yang J, Chen G, Li LL, et al. Synthesis and anti-H5N1 activity of chiral gossypol derivatives and its analogs implicated by a viral entry blocking mechanism. Bioorg Med Chem Lett. 2013 May 1;23(9):2619-23. PMID: 23538114.

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Caution: This product is intended for laboratory and research use only. It is not for human or drug use.