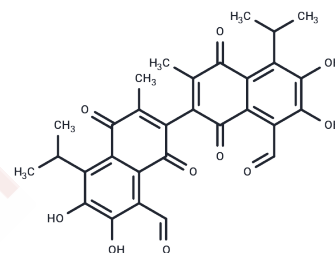


## Gossypolone

## Chemical Properties

CAS No. :	4547-72-2
Formula:	C <sub>30</sub> H <sub>26</sub> O <sub>10</sub>
Molecular Weight:	546.52
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Gossypolone is a proposed major metabolite of gossypol. Gossypolone reduces Notch/Wnt signaling and induces apoptosis.
Targets(IC50)	Others, Gamma-secretase, DNA/RNA Synthesis, Wnt/beta-catenin
In vivo	Gossypolone-PEGylated liposome via tail vein injection inhibits the growth of human colon cancer DLD-1 xenografts in nude mice[2].

## Solubility Information

Solubility	DMSO: 5.47 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8298 mL	9.1488 mL	18.2976 mL
5 mM	0.366 mL	1.8298 mL	3.6595 mL
10 mM	0.183 mL	0.9149 mL	1.8298 mL
50 mM	0.0366 mL	0.183 mL	0.366 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Adamski V, et al. Effects of sequentially applied single and combined temozolomide, hydroxychloroquine and AT101 treatment in a long-term stimulation glioblastoma in vitro model. *J Cancer Res Clin Oncol*. 2018 Jun 1.
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- Liu Y, et al. PVA reinforced gossypolone and doxorubicin  $\pi$ - $\pi$  stacking nanoparticles towards tumor targeting and ultralow dose synergistic chemotherapy. *Biomater Sci*. 2019 Aug 20;7(9):3662-3674.
- Mellon JE, et al. Inhibitory effects of gossypol, gossypolone, and apogossypolone on a collection of economically important filamentous fungi. *J Agric Food Chem*. 2012 Mar 14;60(10):2740-5.

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