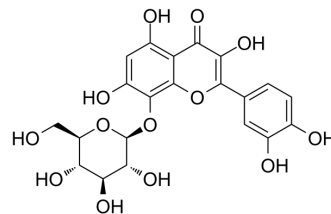


Gossypin

Cat. No.:	HY-125911		
CAS No.:	652-78-8		
Molecular Formula:	C ₂₁ H ₂₀ O ₁₃		
Molecular Weight:	480.38		
Target:	NF-κB		
Pathway:	NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (520.42 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0817 mL	10.4084 mL	20.8169 mL
		5 mM	0.4163 mL	2.0817 mL	4.1634 mL
10 mM		0.2082 mL	1.0408 mL	2.0817 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.33 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Gossypin is a flavone isolated from <i>Hibiscus vitifolius</i> and has antioxidant, antiinflammatory, anticancer, anticataract, antidiabetic, and hepatoprotective activities. Gossypin inhibits NF-κB and NF-κB-regulated gene expression. Gossypin inhibits RANKL-induced osteoclastogenesis both in mouse primary bone marrow cells and RAW 264.7 cells in vitro ^{[1][2]} .
IC₅₀ & Target	IC50: NF-κB ^[1]

REFERENCES

- [1]. Ajaikumar B Kunnumakkara, et al. Gossypin, a pentahydroxy glucosyl flavone, inhibits the transforming growth factor beta-activated kinase-1-mediated NF-kappaB activation pathway, leading to potentiation of apoptosis, suppression of invasion, and abrogati
- [2]. Kanika Patel, et al. Gossypin: A phytochemical of multispectrum potential. the Journal of Coastal Life Medicine.
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Caution: Product has not been fully validated for medical applications. For research use only.

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