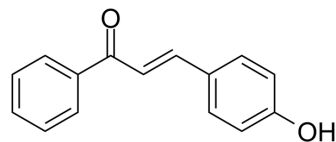


4-Hydroxychalcone

Cat. No.:	HY-107818
CAS No.:	20426-12-4
Molecular Formula:	C ₁₅ H ₁₂ O ₂
Molecular Weight:	224.25
Target:	NF-κB
Pathway:	NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (1114.83 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.4593 mL	22.2965 mL	44.5931 mL
	5 mM	0.8919 mL	4.4593 mL	8.9186 mL
	10 mM	0.4459 mL	2.2297 mL	4.4593 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (9.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (9.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Hydroxychalcone is a chalcone metabolite with anti-angiogenic and anti-inflammatory activities. 4-Hydroxychalcone suppresses angiogenesis by suppression of growth factor pathway with no signs of cytotoxicity^[1]. 4-Hydroxychalcone inhibits TNF-α induced NF-κB pathway activation and activates BMP signaling, reduces resistant hypertension (RH) by attenuating hyperaldosteronism and renal injury in mice^[2].

IC₅₀ & Target

NF-κB^[2]

REFERENCES

[1]. Varinska L, et al. Anti-angiogenic activity of the flavonoid precursor 4-hydroxychalcone. Eur J Pharmacol. 2012 Sep 15;691(1-3):125-33.

[2]. Qu Q, et al. 4-Hydroxychalcone attenuates hyperaldosteronism, inflammation, and renal injury in cryptochrome-null mice. Biomed Res Int. 2014;2014:603415.

Caution: Product has not been fully validated for medical applications. For research use only.

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