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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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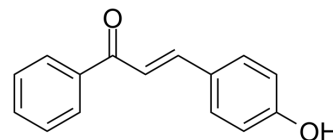
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4-Hydroxychalcone

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 Mass Concentration	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	1. 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				
	2. 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] .
IC ₅₀ & 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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