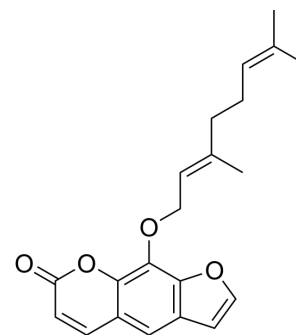


8-Geranyloxypsoralen

Cat. No.:	HY-N2262
CAS No.:	7437-55-0
Molecular Formula:	C ₂₁ H ₂₂ O ₄
Molecular Weight:	338.4
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (295.51 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.9551 mL	14.7754 mL	29.5508 mL
		5 mM	0.5910 mL	2.9551 mL	5.9102 mL
	10 mM	0.2955 mL	1.4775 mL	2.9551 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.39 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	8-Geranyloxypsoralen is a furanocoumarin isolated from grapefruit, acts as a potent inhibitor of P450 3A4 (CYP3A4) with an IC ₅₀ of 3.93 μM ^[1] .
IC ₅₀ & Target	CYP3

REFERENCES

[1]. Row EC, et al. Synthesis of 8-geranyloxypsoralen analogues and their evaluation as inhibitors of CYP3A4. *Bioorg Med Chem.* 2006 Jun 1;14(11):3865-71.

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

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