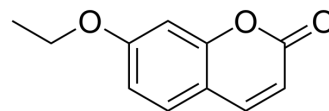


7-Ethoxycoumarin

Cat. No.:	HY-133091
CAS No.:	31005-02-4
Molecular Formula:	C ₁₁ H ₁₀ O ₃
Molecular Weight:	190.2
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (525.76 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>5.2576 mL</td> <td>26.2881 mL</td> <td>52.5762 mL</td> </tr> <tr> <td>5 mM</td> <td>1.0515 mL</td> <td>5.2576 mL</td> <td>10.5152 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5258 mL</td> <td>2.6288 mL</td> <td>5.2576 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	5.2576 mL	26.2881 mL	52.5762 mL	5 mM	1.0515 mL	5.2576 mL	10.5152 mL	10 mM	0.5258 mL	2.6288 mL	5.2576 mL
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	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: ≥ 2.5 mg/mL (13.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.14 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.14 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	7-Ethoxycoumarin is a substrate for cytochrome P450(CYP450) and has been used in the functional characterization of various CYPs[1].
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REFERENCES

[1]. Kim DH, et al. Generation of human metabolites of 7-ethoxycoumarin by bacterial cytochrome P450 BM3. Drug Metab Dispos. 2008 Nov;36(11):2166-70.

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

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