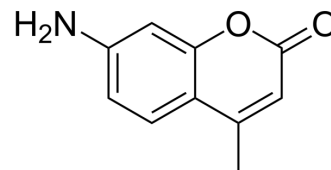


7-Amino-4-methylcoumarin

Cat. No.:	HY-D0027
CAS No.:	26093-31-2
Molecular Formula:	C ₁₀ H ₉ NO ₂
Molecular Weight:	175.18
Target:	Fluorescent Dye; Antibiotic; Fungal
Pathway:	Others; Anti-infection
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 (570.84 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	5.7084 mL	28.5421 mL	57.0841 mL
				5 mM	1.1417 mL	5.7084 mL	11.4168 mL
				10 mM	0.5708 mL	2.8542 mL	5.7084 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (5.71 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (5.71 mM); Suspended solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	7-Amino-4-methylcoumarin belongs to a group of coumarins. 7-Amino-4-methylcoumarin can be isolated from an endophytic fungus <i>Xylaria</i> sp., has broad antimicrobial activity. 7-Amino-4-methylcoumarin is additionally commonly used as an important laser dye emitting in the blue region, as well as a fluorescent probe enabling analyses of glycoproteins' monosaccharides and N-linked oligosaccharides. The excitation wavelength and emission wavelength are 351 nm and 430 nm, respectively ^[1] .
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REFERENCES

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

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