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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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7-Amino-4-methylcoumarin

Cat. No.: HY-D0027

CAS No.: 26093-31-2

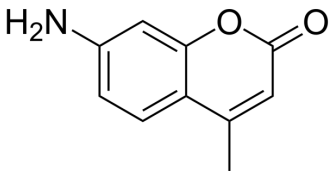
Molecular Formula: $C_{10}H_9NO_2$

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 / Mass / Concentration	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 Xylaria 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].

REFERENCES

[1]. Żamojć K, et al. Fluorescence quenching of 7-amino-4-methylcoumarin by different TEMPO derivatives. Spectrochim Acta A Mol Biomol Spectrosc. 2015 Feb 5;136 Pt C:1875-80.

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