

## 7-Amino-4-methylcoumarin

## Chemical Properties

CAS No. :	26093-31-2
Formula:	C <sub>10</sub> H <sub>9</sub> NO <sub>2</sub>
Molecular Weight:	175.184
Storage:	Keep away from direct sunlight Store at -20°C <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	7-Amino-4-methylcoumarin is a coumarin compound isolated from the endophytic fungus <i>Xylaria</i> sp. that exhibits broad-spectrum antimicrobial activity. 7-Amino-4-methylcoumarin is an important laser dye that emits in the blue region and can be used to analyze monosaccharides and N-linked oligosaccharides in glycoproteins. 7-Amino-4-methylcoumarin is also used in histopathological analysis, enzyme activity assays, and copper ion detection. The excitation and emission wavelengths are 351 nm and 430 nm, respectively.
Targets(IC50)	Antibiotic

## Solubility Information

Solubility	DMSO: 80.00 mg/mL (456.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1142 mL	0.5708 mL	1.1417 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Żamojć K, Wiczek W, Zaborowski B, Jacewicz D, Chmurzyński L. Fluorescence quenching of 7-amino-4-methylcoumarin by different TEMPO derivatives. Spectrochim Acta A Mol Biomol Spectrosc. 2015;136 Pt C:1875-1880.

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