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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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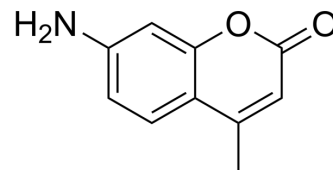
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7-Amino-4-methylcoumarin (Standard)

Cat. No.:	HY-D0027R
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:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

7-Amino-4-methylcoumarin (Standard) is the analytical standard of 7-Amino-4-methylcoumarin. This product is intended for research and analytical applications. 7-Amino-4-methylcoumarin belongs to the coumarin class, can be isolated from the endophytic fungus *Xylaria* sp. and has a broad spectrum of antibacterial activity. 7-Amino-4-methylcoumarin is also commonly used as an important laser dye that emits in the blue region, capable of analyzing glycoprotein monosaccharides and N-linked oligosaccharides, and is also utilized in tissue pathology analysis, enzyme activity measurement, and copper ion detection. The excitation wavelength and emission wavelength are 351 nm and 430 nm, respectively.^{[1][2][3][4]}

REFERENCES

- [1]. Žamojć 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.
- [2]. Hiroshi Takase, et al. 7-Amino-4-methylcoumarin as a fluorescent substitute for Schiff's reagent: a new method that can be combined with hemalum and eosin staining on the same tissue section. *Biotech Histochem.* 2023 Jan;98(1):54-61.
- [3]. M. Goodfellow, et al. Characterisation of rhodococci using peptide hydrolase substrates based on 7-amino-4-methylcoumarin. *FEMS Microbiology Letters*, 1987 Nov; 44 (3): 349-355.
- [4]. Xiaoyan Sun, et al. A highly sensitive and selective ratiometric sensing platform based on 7-amino-4-methylcoumarin for naked-eye visual fluorescence sensing of Cu²⁺. *Spectrochim Acta A Mol Biomol Spectrosc.* 2022 Feb 15;267(Pt 2):120627.

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

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