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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Methyl 2-(7-hydroxy-2-oxo-2H-chromen-4-yl)acetate

Cat. No.: HY-W030319

CAS No.: 15991-13-6

Molecular Formula: $C_{12}H_{10}O_5$

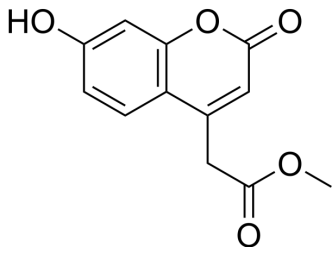
Molecular Weight: 234.2

Target: Fluorescent Dye

Pathway: Others

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 116.67 mg/mL (498.16 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	4.2699 mL	21.3493 mL	42.6985 mL
	5 mM	0.8540 mL	4.2699 mL	8.5397 mL
	10 mM	0.4270 mL	2.1349 mL	4.2699 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Methyl 2-(7-hydroxy-2-oxo-2H-chromen-4-yl)acetate, a natural coumarins derivative, is exploited for the synthesis of the switchable fluorescent substrates to be used in bacterial enzyme detection[1][2][3].

In Vitro

Methyl 2-(7-hydroxy-2-oxo-2H-chromen-4-yl)acetate (compound 2) exhibits the maximum absorption (λabs~322 nm) and emission (λem~387 nm) wavelengths[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nascimento JSD, et al. Mapping the Biotransformation of Coumarins through Filamentous Fungi. Molecules. 2019 Sep 29;24(19).

[2]. Lizzul-Jurse A, et al. Readily functionalizable phosphonium-tagged fluorescent coumarins for enhanced detection of conjugates by mass spectrometry. Org Biomol Chem. 2016 Aug 10;14(32):7777-91.

[3]. Giovannini G, et al. Coumarin-based, switchable fluorescent substrates for enzymatic bacterial detection. Talanta. 2018 Oct 1;188:448-453.

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

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