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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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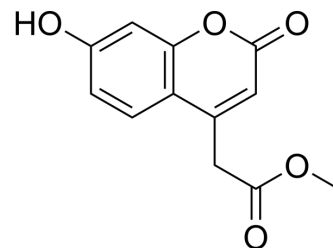
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Methyl 2-(7-hydroxy-2-oxo-2H-chromen-4-yl)acetate

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)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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 (λ_{abs}~322 nm) and emission (λ_{em}~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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