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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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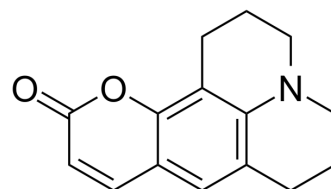
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Coumarin 6H

Cat. No.:	HY-121930
CAS No.:	58336-35-9
Molecular Formula:	C ₁₅ H ₁₅ NO ₂
Molecular Weight:	241.29
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 : 12.5 mg/mL (51.80 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.1444 mL	20.7220 mL	41.4439 mL
	5 mM		0.8289 mL	4.1444 mL	8.2888 mL
	10 mM		0.4144 mL	2.0722 mL	4.1444 mL

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

BIOLOGICAL ACTIVITY

Description

Coumarin 6H, a Coumarin ([Coumarin \(HY-N0709\)](#)) derivative, is a laser dye. The fluorescence emission of Coumarin 6H can be enhanced by hydrogen bonding interactions^{[1][2]}.

In Vitro

The Coumarin 6H with twistblocked and stronger electron-donating julolidine group exhibits higher quantum yield, better biocompatibility, as well as less background fluorescence when suppressed by a fluorescence quenching group. Thus, the Coumarin 6H in probe LH-1 may help to reduce the background fluorescence. In probe LH-1, the fluorescence of Coumarin 6H fluorophore not only can be quenched by the rotation of N-N group, but also can be quenched by the 2,4-dinitrobenzene group via donor-excited photoinduced electron transfer (d-PET) mechanism^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. P M French, et al. Passively mode-locked cw Coumarin 6 ring dye laser. Opt Lett. 1989 Feb 15;14(4):217-8.
- [2]. Zhixiang Han, et al. A novel fluorescent probe with extremely low background fluorescence for sensing hypochlorite in zebrafish. Anal Biochem. 2020 Aug 1;602:113795.

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

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