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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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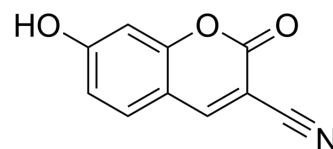
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3-Cyanoumbelliferone

Cat. No.:	HY-D0039
CAS No.:	19088-73-4
Molecular Formula:	C ₁₀ H ₅ NO ₃
Molecular Weight:	187.15
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.67 mg/mL (35.64 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.3433 mL	26.7165 mL	53.4331 mL
	5 mM		1.0687 mL	5.3433 mL	10.6866 mL
	10 mM		0.5343 mL	2.6717 mL	5.3433 mL

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

BIOLOGICAL ACTIVITY

Description

3-Cyanoumbelliferone is a coumarin derivative, acting as molecular probe and fluorescent dye. 3-Cyanoumbelliferone is also a macrophage migration inhibitory factor (MIF) tautomerase inhibitor with a K_i of 2.9 μM^[1].

IC₅₀ & Target

K_i: 2.9 μM (MIF)^[1]

REFERENCES

[1]. Orita M, et al. Coumarin and chromen-4-one analogues as tautomerase inhibitors of macrophage migration inhibitory factor: discovery and X-ray crystallography. J Med Chem. 2001 Feb 15;44(4):540-7.

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

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