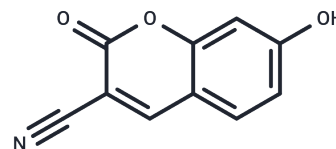


3-Cyano-7-hydroxycoumarin

Chemical Properties

CAS No. :	19088-73-4
Formula:	C ₁₀ H ₅ NO ₃
Molecular Weight:	187.15
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	3-Cyano-7-hydroxycoumarin (3-Cyanoumbelliferone) is a macrophage inhibitor of macrophage inhibitory factor (MIF) interconjugate isomerase with a K_i of 2.9 μ M. 3-Cyano-7-hydroxycoumarin belongs to the group of coumarin derivatives, which can be used as molecular probes and fluorescent dyes.
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Solubility Information

Solubility	DMSO: 15 mg/mL (80.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1069 mL	0.5343 mL	1.0687 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481