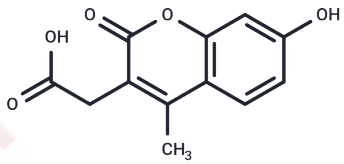
Data Sheet (Cat.No.TD0075)

TargetMol

7-Hydroxy-4-methylcoumarin-3-acetic acid

Chemical Properties



CAS No. : 5852-10-8

Formula: C12H10O5

Molecular Weight: 234.2

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	7-Hydroxy-4-methylcoumarin-3-acetic acid is a blue fluorophore with pH-dependent and environmentally sensitive fluorescence that is widely used to label peptides, nucleotides, and carbohydrates, and also as a pH indicator.
Targets(IC50)	Others
In vitro	7-Hydroxy-4-methylcoumarin-3-acetic acid, a blue fluorophore, has pH-dependent and environmentsensitive fluorescence. This coumarin is increasingly used to the label of carbohydrates, nucleotides and peptides.

Solubility Information

Solubility	DMSO: 200 mg/mL (853.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2699 mL	21.3493 mL	42.6985 mL
5 mM	0.854 mL	4.2699 mL	8.5397 mL
10 mM	0.427 mL	2.1349 mL	4.2699 mL
50 mM	0.0854 mL	0.427 mL	0.854 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chattha, et al. Coumarin-Based Heteroaromatics as Plant Growth Regulators" Plant Growth, edited by Everlon Rigobelo, IntechOpen, 2016. 10.5772/64854.