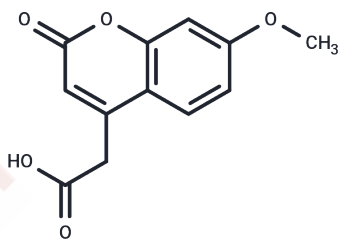
Data Sheet (Cat.No.T64951)

TargetMol

7-Methoxycoumarin-4-acetic acid

Chemical Properties



CAS No. : 62935-72-2

Formula: C12H10O5

Molecular Weight: 234.21

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	7-Methoxycoumarin-4-acetic acid (MCA) is a coumarin-derived fluorescent dye for peptide labelling. MCA enables quantitative detection of platelet-activating factor (PAF) via high-performance liquid chromatography fluorescence detection (Ex/Em=330/390 nm).
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 20 mg/mL (85.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (8.54 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2697 mL	21.3484 mL	42.6967 mL
5 mM	0.8539 mL	4.2697 mL	8.5393 mL
10 mM	0.427 mL	2.1348 mL	4.2697 mL
50 mM	0.0854 mL	0.427 mL	0.8539 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

Perera NC, et, al. NSP4 is stored in azurophil granules and released by activated neutrophils as active endoprotease with restricted specificity. J Immunol. 2013 Sep 1;191(5):2700-7.
Choi YH,et, al. Effect of functional groups on the solubilities of coumarin derivatives in supercritical carbon dioxide. Chromatographia. 1998 Jan;47(93-7).

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