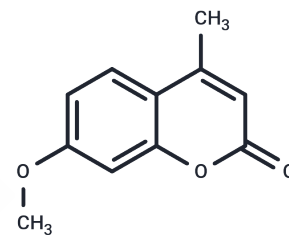


4-Methylherniarin

Chemical Properties

CAS No. :	2555-28-4
Formula:	C ₁₁ H ₁₀ O ₃
Molecular Weight:	190.2
Storage:	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	4-Methylherniarin (7-Methoxy-4-methylcoumarin) is a coumarin derivative and fluorescent label that exhibits significant activity against B. subtilis.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 11 mg/mL (57.83 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 (10.52 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2576 mL	26.2881 mL	52.5762 mL
5 mM	1.0515 mL	5.2576 mL	10.5152 mL
10 mM	0.5258 mL	2.6288 mL	5.2576 mL
50 mM	0.1052 mL	0.5258 mL	1.0515 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 F A , Munawar M A , Nisa M , et al. Potential antibacterial activity of coumarin and coumarin-3-acetic acid derivatives[J]. Pakistan journal of pharmaceutical sciences, 2015, 28(3):819-823.

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