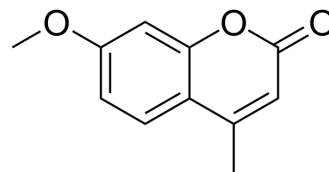


4-Methylherniarin

Cat. No.:	HY-D0128		
CAS No.:	2555-28-4		
Molecular Formula:	C ₁₁ H ₁₀ O ₃		
Molecular Weight:	190.2		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (131.44 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (10.94 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.94 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	4-Methylherniarin (7-Methoxy-4-methylcoumarin) is a coumarin derivative and fluorescent label, has an antimicrobial activity against both gram positive and gram negative bacterial stains. 4-Methylherniarin displays good activity against <i>B. subtilis</i> and <i>S. sonnei</i> with IC ₅₀ values of 11.76 µg/ml and 13.47 µg/ml ^[1] .
IC ₅₀ & Target	IC ₅₀ : 11.76 µg/ml (<i>B. subtilis</i>); 13.47 µg/ml (<i>S. sonnei</i>) ^[1]

REFERENCES

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

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