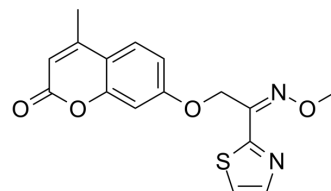


Antimicrobial agent-2

Cat. No.:	HY-146460		
CAS No.:	2412592-33-5		
Molecular Formula:	C ₁₆ H ₁₄ N ₂ O ₄ S		
Molecular Weight:	330.36		
Target:	Reactive Oxygen Species		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (302.70 mM; ultrasonic and warming and heat to 80°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0270 mL	15.1350 mL	30.2700 mL
		5 mM	0.6054 mL	3.0270 mL	6.0540 mL
10 mM		0.3027 mL	1.5135 mL	3.0270 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.57 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Antimicrobial agent-2 (compound V-a) is a broad-spectrum antimicrobial agent, possessing inhibitory activity against various Gram-positive and -negative bacteria. Antimicrobial agent-2 has excellent inhibitory effect on Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) with a MIC of 1 µg/mL. Antimicrobial agent-2 can effectively damage the membrane and lead to the leakage of protein, also can induce the generation of ROS. Antimicrobial agent-2 exhibits low toxicity, no obvious resistance and good bioavailability ^[1] .
IC₅₀ & Target	MIC: 1 µg/mL (MRSA), 2 µg/mL (Enterococcus faecalis) ^[1]

REFERENCES

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

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