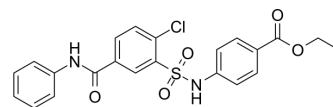


SABA1

Cat. No.:	HY-144701	
CAS No.:	690681-65-3	
Molecular Formula:	C ₂₂ H ₁₉ ClN ₂ O ₅ S	
Molecular Weight:	458.91	
Target:	Antibiotic; Bacterial	
Pathway:	Anti-infection	
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 (217.91 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1791 mL	10.8954 mL	21.7908 mL
		5 mM	0.4358 mL	2.1791 mL	4.3582 mL
10 mM		0.2179 mL	1.0895 mL	2.1791 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: 2.5 mg/mL (5.45 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.45 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	SABA1 possesses antibacterial properties against <i>Pseudomonas aeruginosa</i> and <i>Escherichia coli</i> , with an IC ₅₀ of 4.0 μM against <i>E. coli</i> ACC ^[1] .
In Vitro	SABA1 inhibits BC via an atypical mechanism. It binds in the biotin binding site in the presence of ADP and represents a potentially antibiotic used to combat the antibacterial resistance crisis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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