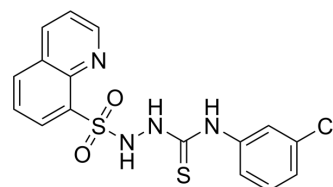


QST4

Cat. No.:	HY-156421		
CAS No.:	2991427-35-9		
Molecular Formula:	C ₁₆ H ₁₃ ClN ₄ O ₂ S ₂		
Molecular Weight:	392.88		
Target:	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 : 125 mg/mL (318.16 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5453 mL	12.7265 mL	25.4531 mL
	5 mM	0.5091 mL	2.5453 mL	5.0906 mL
	10 mM	0.2545 mL	1.2727 mL	2.5453 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

QST4 has antitubercular activity, with the MIC value of 6.25 μM in Mycobacterium tuberculosis H37Rv^[1].

REFERENCES

[1]. Novel Quinoline-Based Thiosemicarbazide Derivatives: Synthesis, DFT Calculations, and Investigation of Antitubercular, Antibacterial, and Antifungal Activities

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

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