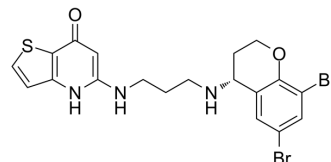


CRS3123

Cat. No.:	HY-18324
CAS No.:	1013915-71-3
Molecular Formula:	C ₁₉ H ₁₉ Br ₂ N ₃ O ₂ S
Molecular Weight:	513.25
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (194.84 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	1.9484 mL	9.7418 mL	19.4837 mL	
5 mM	0.3897 mL	1.9484 mL	3.8967 mL	
10 mM	0.1948 mL	0.9742 mL	1.9484 mL	

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

BIOLOGICAL ACTIVITY

Description

CRS3123 is a potent and orally active narrow-spectrum antibiotic. CRS3123 inhibits bacterial methionyl-tRNA synthetase. CRS3123 has potent activity against *Clostridium difficile* (*C. difficile*) and aerobic Gram-positive bacteria but little activity against Gram-negative bacteria, including anaerobes. CRS3123 has the potential for the research of *C. difficile* infections^[1].

REFERENCES

[1]. Lomeli BK, et al. Multiple-Ascending-Dose Phase 1 Clinical Study of the Safety, Tolerability, and Pharmacokinetics of CRS3123, a Narrow-Spectrum Agent with Minimal Disruption of Normal Gut Microbiota. *Antimicrob Agents Chemother.* 2019; 64(1):e01395-19.

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

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