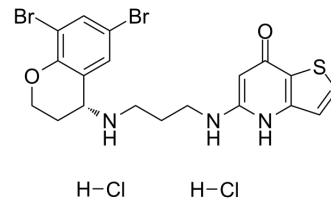


## CRS3123 dihydrochloride

<b>Cat. No.:</b>	HY-115440
<b>CAS No.:</b>	1013915-99-5
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>21</sub> Br <sub>2</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	586.17
<b>Target:</b>	Bacterial; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (170.60 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7060 mL	8.5299 mL	17.0599 mL
	5 mM	0.3412 mL	1.7060 mL	3.4120 mL
	10 mM	0.1706 mL	0.8530 mL	1.7060 mL

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

### BIOLOGICAL ACTIVITY

#### Description

CRS3123 (REP-3123) dihydrochloride, a fully synthetic antibacterial agent, potently inhibits methionyl-tRNA synthetase (MetRS) of *Clostridioides difficile*, inhibiting *Clostridioides difficile* toxin production and spore formation. CRS3123 dihydrochloride is an oral agent for the research of *Clostridioides difficile* infection (CDI)<sup>[1]</sup>.

### REFERENCES

[1]. Agent with Minimal Disruption of Normal Gut Microbiota. Antimicrob Agents Chemother. 2019 Dec 20;64(1):e01395-19.

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

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