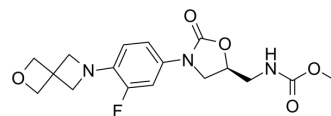


## TBI-223

Cat. No.:	HY-139398		
CAS No.:	2071265-08-0		
Molecular Formula:	C <sub>17</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>5</sub>		
Molecular Weight:	365.36		
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 : 50 mg/mL (136.85 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7370 mL	13.6851 mL	27.3703 mL
	5 mM	0.5474 mL	2.7370 mL	5.4741 mL
	10 mM	0.2737 mL	1.3685 mL	2.7370 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (6.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (6.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.84 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

TBI-223 is an orally bioavailable oxazolidinone antibiotic and an antimicrobial. TBI-223 shows activity against *Mycobacterium tuberculosis* (Mtb)<sup>[1][2]</sup>.

### REFERENCES

- [1]. Chauhan A, et al. Comprehensive review on mechanism of action, resistance and evolution of antimycobacterial drugs. *Life Sci.* 2021;274:119301.

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

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