Proteins

Product Data Sheet

Metallo β-lactamase ligand 1

Cat. No.: HY-136306 CAS No.: 1087784-71-1 C,H,NO,S Molecular Formula: Molecular Weight: 219.22

Target: Bacterial; Beta-lactamase

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: 250 mg/mL (1140.41 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.5616 mL	22.8081 mL	45.6163 mL
Stock Solutions	5 mM	0.9123 mL	4.5616 mL	9.1233 mL
	10 mM	0.4562 mL	2.2808 mL	4.5616 mL

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

BIOL	α CI	~ 1	ΛCTI	MTV
вил	10/61	LAI	$\Delta U = I$	$\mathbf{v} - \mathbf{v}$

Description	Metallo-beta-lactamase ligand 1 is a class B β -lactamase inhibitor with antibacterial activity extracted from patent WO2019221122A1, compound A ^[1] .
In Vitro	One effective measure against β -lactam antibacterial resistant bacteria is to use an inhibitor of β -lactamase, the enzyme responsible for its resistance mechanism, together with an appropriate β -lactam antibacterial agent ^[1] . The toxicity of Metallo-beta-lactamase ligand 1 (Compound A) is extremely low in HeLa cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	After infecting mice with an experimental strain (E. coli strain into which a plasmid encoding class B β-lactamase (IMP-1) is introduced), Metallo-beta-lactamase ligand 1 (compound A; 100 mg/kg; intraperitoneal injection) is administered, and life and death are observed. Administration of Metallo-beta-lactamase ligand 1 (compound A) significantly improves the survival rate ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES				
[1]. Arakawa, Yoshichika, et al.£	3-LACTAMASE INHIBITOR. \	WO2019221122A1.		
	Caution Braduct has	not been fully validated for m	edical applications. For research use	only.
	Tel: 609-228-6898	Fax: 609-228-5909	E-mail: tech@MedChemExpres	s.com
	Tel: 609-228-6898 Address	Fax: 609-228-5909 : 1 Deer Park Dr, Suite Q, Monm	E-mail: tech@MedChemExpres outh Junction, NJ 08852, USA	s.com
				s.com

Page 2 of 2 www.MedChemExpress.com