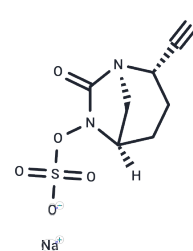


WCK-4234 sodium

Chemical Properties

CAS No. :	1804915-68-1
Formula:	C7H8N3NaO5S
Molecular Weight:	269.21
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	WCK-4234 sodium (WCK 4234) is an inhibitor of β -lactamase can be used in studies targeting MDR infections. WCK-4234 sodium inhibits class A, C, and D β -lactamases and OXA carbapenemases.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 95 mg/mL (352.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (12.26 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7146 mL	18.5729 mL	37.1457 mL
5 mM	0.7429 mL	3.7146 mL	7.4291 mL
10 mM	0.3715 mL	1.8573 mL	3.7146 mL
50 mM	0.0743 mL	0.3715 mL	0.7429 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Papp-Wallace KM, et al. Strategic Approaches to Overcome Resistance against Gram-Negative Pathogens Using β -Lactamase Inhibitors and β -Lactam Enhancers: Activity of Three Novel Diazabicyclooctanes WCK 5153, Zidebactam (WCK 5107), and WCK 4234. *J Med Chem.* 2018 May 10;61(9):4067-4086.

Moya B, et al. Potent β -Lactam Enhancer Activity of Zidebactam and WCK 5153 against *Acinetobacter baumannii*, Including Carbapenemase-Producing Clinical Isolates. *Antimicrob Agents Chemother.* 2017 Oct 24;61(11). pii: e01238-17.

Iregui A, et al. Activity of Meropenem with a Novel Broader-Spectrum β -Lactamase Inhibitor, WCK 4234, against Gram-Negative Pathogens Endemic to New York City. *Antimicrob Agents Chemother.* 2019 Dec 20;64(1):e01666-19.

Mushtaq S, et al. WCK 4234, a novel diazabicyclooctane potentiating carbapenems against Enterobacteriaceae, *Pseudomonas* and *Acinetobacter* with class A, C and D β -lactamases. *J Antimicrob Chemother.* 2017 Jun 1;72(6): 1688-1695.

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