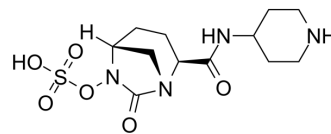


Relebactam

Cat. No.:	HY-16752		
CAS No.:	1174018-99-5		
Molecular Formula:	C ₁₂ H ₂₀ N ₄ O ₆ S		
Molecular Weight:	348.38		
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	H ₂ O : 50 mg/mL (143.52 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.8704 mL	14.3521 mL	28.7043 mL
	5 mM	0.5741 mL	2.8704 mL	5.7409 mL
	10 mM	0.2870 mL	1.4352 mL	2.8704 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (71.76 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	Relebactam is a diazabicyclooctane inhibitor with activity against a wide spectrum of β-lactamases, including class A (extended-spectrum β-lactamases and KPC) and class C (AmpC) enzymes. Relebactam shows antibacterial activity ^[1] .
In Vitro	Relebactam combine with Imipenem demonstrates activity against KPC-producing Enterobacteriaceae and multidrug-resistant <i>P. aeruginosa</i> ^[1] . Relebactam shows limited inhibition of Class D-producing bacteria and has antipseudomonal activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Antimicrob Chemother. 2021 May 6;dkab141.
- J Antimicrob Chemother. 2021 Feb 11;76(3):653-658.
- Antimicrob Agents Chemother. 2020 Nov 17;64(12):e00297-20.
- Antimicrob Agents Chemother. 2020 Mar 24;64(4):e02255-19.
- Int J Antimicrob Agents. 3 September 2022, 106669.

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REFERENCES

- [1]. Lapuebla A, et al. Activity of Imipenem with Relebactam against Gram-Negative Pathogens from New York City. Antimicrob Agents Chemother. 2015 Aug;59(8):5029-31.
- [2]. Bush K. A resurgence of β -lactamase inhibitor combinations effective against multidrug-resistant Gram-negative pathogens. Int J Antimicrob Agents. 2015 Nov;46(5):483-93.
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Caution: Product has not been fully validated for medical applications. For research use only.

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