

Product Datasheet

Relebactam (orb1226879)

Catalog Number	orb1226879
Category	Small Molecules
Description	Relebactam (MK-7655) is a novel β -lactamase inhibitor that inhibited both class A and C β -lactamases in vitro; effectively restored imipenem's activity against imipenem-resistant Pseudomonas and Klebsiella strains at clinically achievable concentrations; reduces imipenem MICs for Enterobacteriaceae with KPC carbapenemases from 16-64 mg/L to 0.12-1 mg/L at a concentration of 4 mg/L. Bacterial Infection Phase 3 Clinical (In Vitro): Relebactam combine with Imipenem demonstrates activity against KPC-producing Enterobacteriaceae and multidrug-resistant P. aeruginosa. Relebactam shows limited inhibition of Class D-producing bacteria and has antipseudomonal activity.
Target	Antibacterial
Purity	>98% (HPLC)
MW	348.3754
Target Areas	diazabicyclooctane
Solubility (25°C)	10 mM in DMSO
CAS Number	1174018-99-5
Formula	C ₁₂ H ₂₀ N ₄ O ₆ S
SMILES	O=S(O)(ON1[C@]2([H])CC[C@@H](C(NC3CCNCC3)=O)[N@@](C2)C1=O)=O
Chemical Name	Sulfuric acid, mono[(1R,2S,5R)-7-oxo-2-[(4-piperidinylamino)carbonyl]-1,6-diazabicyclo[3.2.1]oct-6-yl] ester
Storage	Storage temperature: -20°C. Stability: \geq 2 years

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Note For research use only

Expiration Date 12 months from date of receipt.

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