

Product Datasheet

Ranbezolid hydrochloride (orb3173737)

Catalog Number	orb3173737
Category	Small Molecules
Description	Ranbezolid (RBx7644 free base) is an orally effective oxazolidinone antibiotic targeting Gram-positive and Gram-negative anaerobes, such as <i>Staphylococcus aureus</i>, <i>Staphylococcus epidermidis</i>, and <i>Bacteroides fragilis</i>. It inhibits the 50S ribosomal subunit with an IC₅₀ of 17 µM for bacterial ribosomes. Ranbezolid also disrupts cell wall and lipid synthesis. This compound acts rapidly as a bactericidal agent, significantly reducing bacterial load while offering improved cardiovascular safety. Ranbezolid is applicable in research on antibiotics against anaerobic bacteria.
Target	Antibacterial,Antibiotic
MW	497.91
CAS Number	392659-39-1
Formula	C ₂₁ H ₂₅ ClFN ₅ O ₆
SMILES	<chem>O=C1N(C[C@H](CNC(C)=O)O1)C2=CC(F)=C(C=C2)N3CCN(CC=4OC(N(=O)=O)=CC4)CC3.Cl</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

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