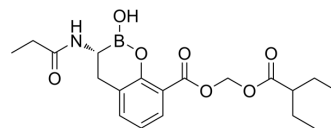


Ledaborbactam etzadroxil

Cat. No.:	HY-132824
CAS No.:	1842399-68-1
Molecular Formula:	C ₁₉ H ₂₆ BNO ₇
Molecular Weight:	391.22
Target:	Bacterial; Beta-lactamase
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ledaborbactam etzadroxil (VNRX-7145) is an orally active Ambler class A, C, and D β-lactamase enzymes inhibitor ^[1] .
IC ₅₀ & Target	β-Lactamase ^[1]
In Vivo	<p>Upon dosing the Ledaborbactam etzadroxil (VNRX-7145) in mice, dogs, and monkeys, Ledaborbactam etzadroxil (5-10 mg/kg) demonstrates the most consistent oral bioavailability across species (F = 61-82%)^[1].</p> <p>In intestinal S9, Ledaborbactam etzadroxil is rapidly cleaved with short half-lives in all species with the exception of beagle dogs. The half-life in human plasma is short at about 11 min, which is closer to what was observed in the rodent species compared to the longer half-lives in dogs (43.9 min) and monkeys (22.0 min)^[1].</p> <p>In vivo efficacy is demonstrated in a lethal murine septicemia model by dosing Ledaborbactam etzadroxil (orally) with Ceftibuten. The ED₅₀ value of 12.9 mg/kg^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Robert E Trout, et al. Discovery of VNRX-7145 (VNRX-5236 Etzadroxil): An Orally Bioavailable β-Lactamase Inhibitor for Enterobacterales Expressing Ambler Class A, C, and D Enzymes. *J Med Chem.* 2021 Jul 22;64(14):10155-10166.

Caution: Product has not been fully validated for medical applications. For research use only.

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