

Ledaborbactam etzadroxil

Chemical Properties

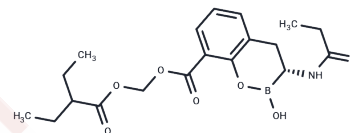
CAS No. : 1842399-68-1

Formula: C₁₉H₂₆BN₂O₇

Molecular Weight: 391.23

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ledaborbactam etzadroxil (VNRX-7145) is an orally active inhibitor of Ambler class A, C, and D β -lactamase enzymes.
Targets(IC50)	Others, Antibacterial
In vivo	Upon administering Ledaborbactam etzadroxil (VNRX-7145) to mice, dogs, and monkeys, the compound consistently shows oral bioavailability (F = 61-82%) across these species, with dosages ranging from 5-10 mg/kg[1]. It is rapidly metabolized in the intestinal S9 fractions of all tested species, except for beagle dogs, displaying short half-lives. The human plasma half-life is notably brief at approximately 11 minutes, aligning more closely with rodents than with the longer half-lives observed in dogs (43.9 minutes) and monkeys (22.0 minutes)[1]. In vivo efficacy against lethal murine septicemia was achieved when Ledaborbactam etzadroxil was orally co-administered with Ceftibuten, yielding an ED50 value of 12.9 mg/kg[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.556 mL	12.7802 mL	25.5604 mL
5 mM	0.5112 mL	2.556 mL	5.1121 mL
10 mM	0.2556 mL	1.278 mL	2.556 mL
50 mM	0.0511 mL	0.2556 mL	0.5112 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

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

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