
Product Data Sheet

Product Name: VNRX-5133

Cat. No.: GC37917

Chemical Properties

Cas. No. 1613268-23-7

SMILES OC(C1=C2C(C[C@@H])(NC(C[C@@H])3CC[C@@H](NCCN)CC3)=O)B(O)O2)=CC=C1)=O

Formula	C ₁₉ H ₂₈ BN ₃ O ₅	M.Wt	389.25
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

VNRX-5133 is a cyclic boronate β-lactamase inhibitor. VNRX-5133 has direct inhibitory activity against serine-active site β-lactamases (Ser-BL) and metallo-β-lactamases (MBL). VNRX-5133 is highly active against multidrug-resistant (MDR)-K. pneumonia and P. aeruginosa clinical isolates[1]. β-lactamase[1]

VNRX-5133 is a potent β-lactamase inhibitor (BLI) possessing a unique broad spectrum of activity, including Class A, C, and D Ser-BLs. VNRX-5133 enhances the activity of Cefepime against resistant Enterobacteriaceae and P. aeruginosa isolates in a neutropenic mouse-thigh infection model[1].

[1]. Denis Daigle, PhD, et al. 1370. Cefepime/VNRX-5133 Broad-Spectrum Activity Is Maintained Against Emerging KPC- and PDC-Variants in Multidrug-Resistant K. pneumonia and P. aeruginosa. Open Forum Infect Dis. 2018 Nov; 5(Suppl 1): S419-S420.

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

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