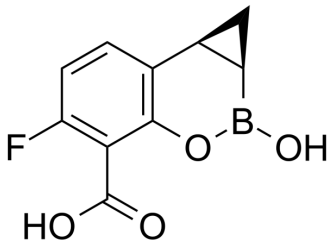
Xeruborbactam

Cat. No.:	HY-136069
CAS No.:	2170834-63-4
Molecular Formula:	$C_{10}H_8BFO_4$
Molecular Weight:	221.98
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Xeruborbactam (QPX7728) is a potent, ultra-broad-spectrum boronic acid beta-lactamase inhibitor. Xeruborbactam inhibits key serine and metallo beta-lactamases at a nano molar range[1].
IC_{50} & Target	Beta-lactamase[1]
In Vitro	Xeruborbactam is a potent inhibitor of Class D carbapenemases from A. baumannii[1]. Xeruborbactam is minimally affected by the activity of major MDR efflux pumps from P. aeruginosa, representing a significant improvement over the earlier generation boronate beta-lactamase inhibitor (BLI) vaborbactam[1]. The ultra-broad-spectrum beta-lactamase inhibition profile combined with enhancement of the activity of multiple beta-lactam antibiotics with varying sensitivity to the intrinsic resistance mechanisms of efflux and permeability indicate Xeruborbactam is a useful inhibitor for use with multiple beta-lactam antibiotics[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lomovskaya O, et al, The Impact of Intrinsic Resistance Mechanisms on Potency of QPX7728, a New Ultra-Broad-Spectrum Beta-lactamase Inhibitor of Serine and Metallo Beta-Lactamases in Enterobacteriaceae, Pseudomonas aeruginosa, and Acinetobacter baumannii. Antimicrob Agents Chemother. 2020 Mar 30. pii: AAC.00552-20.

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