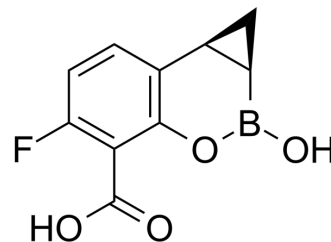


Xeruborbactam

| | |
|--------------------|---|
| Cat. No.: | HY-136069 |
| CAS No.: | 2170834-63-4 |
| Molecular Formula: | C ₁₀ H ₈ BFO 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] . |
| In Vitro | Xeruborbactam is a potent inhibitor of Class D carbapenemases from <i>A. baumannii</i> ^[1] . Xeruborbactam is minimally affected by the activity of major MDR efflux pumps from <i>P. aeruginosa</i> , 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.

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

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