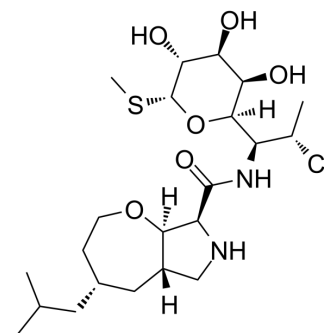


## Iboxamycin

Cat. No.:	HY-139798
CAS No.:	2640000-92-4
Molecular Formula:	C <sub>22</sub> H <sub>39</sub> ClN <sub>2</sub> O <sub>6</sub> S
Molecular Weight:	495.07
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Iboxamycin is a potent antibiotic candidate bearing a fused bicyclic amino acid residue. Iboxamycin is orally bioavailable, safe and effective in treating both Gram-positive and Gram-negative bacterial infections in mice <sup>[1][2]</sup> .
<b>In Vitro</b>	Iboxamycin is effective against ESKAPE pathogens including strains expressing Erm and Cfr ribosomal RNA methyltransferase enzymes, products of genes that confer resistance to all clinically relevant antibiotics targeting the large ribosomal subunit, namely macrolides, lincosamides, phenicols, oxazolidinones, pleuromutilins and streptogramins <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Mason JD, et al. Practical Gram-Scale Synthesis of Iboxamycin, a Potent Antibiotic Candidate. *J Am Chem Soc.* 2021;143(29):11019-11025.
- [2]. Mitcheltree MJ, et al. A synthetic antibiotic class overcoming bacterial multidrug resistance. *Nature.* 2021;599(7885):507-512.

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

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