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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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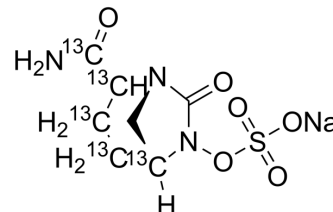
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Avibactam sodium salt-¹³C₅

Cat. No.:	HY-14879S2
Molecular Formula:	C ₂ ¹³ C ₅ H ₁₀ N ₃ NaO ₆ S
Molecular Weight:	292.19
Target:	Isotope-Labeled Compounds; Antibiotic; Beta-lactamase; Bacterial
Pathway:	Others; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Avibactam sodium salt-¹³C₅ (NXL-104-¹³C₅) is ¹³C labeled Avibactam (sodium). Avibactam sodium (NXL-104) is a covalent and reversible non-β-lactam β-lactamase inhibitor which inhibits β-lactamase TEM-1 and CTX-M-15 with IC₅₀s of 8 nM and 5 nM, respectively^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Berkhout J, et al. Pharmacokinetics and penetration of GR20263 and avibactam into epithelial lining fluid in thigh- and lung-infected mice. *Antimicrob Agents Chemother*. 2015 Apr;59(4):2299-304.
- [3]. Ehmann DE, et al. Avibactam is a covalent, reversible, non-β-lactam β-lactamase inhibitor. *Proc Natl Acad Sci U S A*. 2012 Jul 17;109(29):11663-8.
- [4]. Livermore DM, et al. Characterization of β-lactamase and porin mutants of Enterobacteriaceae selected with ceftazidime + avibactam (NXL104). *J Antimicrob Chemother*. 2012 Jun;67(6):1354-8.
- [5]. Zhang W, et al. In vitro and in vivo bactericidal activity of ceftazidime-avibactam against Carbapenemase-producing *Klebsiella pneumoniae*. *Antimicrob Resist Infect Control*. 2018 Nov 21;7:142.

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

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