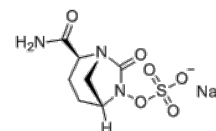


Product Name : Avibactam sodium
Cat. No. : PC-73144
CAS No. : 1192491-61-4
Molecular Formula : C₇H₁₀N₃NaO₆S
Molecular Weight : 287.23
Target : Bacterial
Solubility : 100 mM in H₂O



1. Ehmann DE, et al. *Proc Natl Acad Sci U S A*. 2012 Jul 17;109(29):11663-8.
2. Wu M, et al. *Cell Rep*. 2024 Nov 26;43(11):114962.

Biological Activity

Avibactam sodium (NXL104) is a covalent and reversible non- β -lactam **β -lactamase** inhibitor with IC₅₀ of 8 nM and 5 nM for β -lactamase TEM-1 and CTX-M-15, respectively, also is a specific inhibitor of **ZDHC3** with K_d of 1.09 μ M (MST assay). Avibactam sodium destabilizes SCAP, reduces SREBP2 transcription, and inhibits HCC growth.

Avibactam sodium inhibits class A and C β -lactamases, but not metallo types and Acinetobacter OXA carbapenemases.

Avibactam sodium also decreases the protein levels of ZDHC3 and SCAP and liver total cholesterol levels, in a DEN/CCl₄-induced mouse model of HCC.

References

