

Product Information

Avibactam sodium, Purity $\geq 98\%$

Cat. No.: X24-09-YM1427

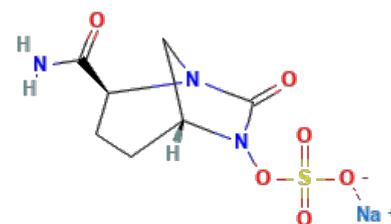
Size: 5 mg; 10 mg; 50 mg; 100 mg

MDL: MFCD28900719

CAS Number: 1192491-61-4

Compound CID: 24944097

Synonym: 1192491-61-4; Avibactam sodium salt; NXL 104;; Sodium; [(2*S*,5*R*)-2-carbamoyl-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl] sulfate



This product is for research use only and is not intended for diagnostic use.

Product Information

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|--------------------------|---|
| Description | Avibactam sodium, soluble in DMSO and water and insoluble in ethanol, is a covalent and reversible non- β -lactam β -lactamase inhibitor. The molecular weight of the compound is 287.23, and its molecular formula is $C_7H_{10}N_3NaO_6S$. |
| Molecular Weight | 287.23 |
| Molecular Formula | $C_7H_{10}N_3NaO_6S$ |
| IUPAC Name | Sodium;[(2 <i>S</i> ,5 <i>R</i>)-2-carbamoyl-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl] sulfate |
| InChI | InChI=1S/C7H11N3O6S.Na/c8-6(11)5-2-1-4-3-9(5)7(12)10(4)16-17(13,14)15;/h4-5H,1-3H2,(H2,8,11)(H,13,14,15);/q;+1/p-1/t4-,5+;/m1./s1 |
| InChI Key | RTCIKUMODPANKX-JBUOLDKXSA-M |
| Canonical SMILES | <chem>C1CC(N2CC1N(C2=O)OS(=O)(=O)[O-])C(=O)N.[Na+]</chem> |
| Form | Lyophilized powder |
| Purity | $\geq 98\%$ |
| Impurities | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects. |
| Solubility | <i>In vitro</i> : DMSO: 49 mg/mL (170.59 mM); Water: 49 mg/mL (170.59 mM); Ethanol: insoluble |
| Identity | Confirmed by NMR/HPLC/MS. |
| Stability | In its lyophilized form, the chemical remains stable for 36 months. |
| Quality Level | Research grade |
| Applications | Avibactam sodium plays a key role in helping restore the effectiveness of antibiotics against resistant bacterial strains. |
| Storage | Store at -20°C , and keep desiccated. |

