

Product Information

Nacubactam, Purity $\geq 98\%$

Cat. No.: X24-09-YM1445

Size: 1 mg; 5 mg; 10 mg; 20 mg

MDL: MFCD28986228

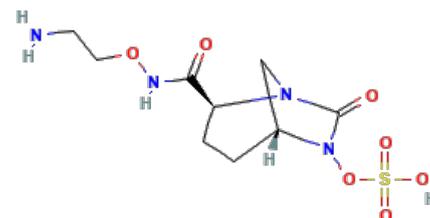
CAS Number: 1452458-86-4

Compound CID: 73386748

Synonym: 1452458-86-4; OP0595 free acid; OP 0595; OP-0595;

[(2*S*,5*R*)-2-(2-Aminoethoxycarbamoyl)-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl]

hydrogen sulfate



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

Product Information

Description	Nacubactam is a potent non- β -lactam- β -lactamase inhibitor. The molecular weight of the compound is 324.31, and its molecular formula is $C_9H_{16}N_4O_7S$.
Molecular Weight	324.31
Molecular Formula	$C_9H_{16}N_4O_7S$
IUPAC Name	[(2 <i>S</i> ,5 <i>R</i>)-2-(2-Aminoethoxycarbamoyl)-7-oxo-1,6-diazabicyclo[3.2.1]octan-6-yl] hydrogen sulfate
InChI	InChI=1S/C9H16N4O7S/c10-3-4-19-11-8(14)7-2-1-6-5-12(7)9(15)13(6)20-21(16,17)18/h6-7H,1-5,10H2,(H,11,14)(H,16,17,18)/t6-,7+/m1/s1
InChI Key	RSBPYSTVZQAAD-ERQJHMYQMSA-N
Canonical SMILES	<chem>C1CC(N2CC1N(C2=O)OS(=O)(=O)O)C(=O)NOC CN</chem>
Isomeric SMILES	<chem>C[C@H]([C@@H]1[C@@H]2N(C1=O)C(=C(S2)S[C@H]3CC[S@@](=O)C3)C(=O)O)O</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Nacubactam can be studied extensively for its potential therapeutic applications in the treatment of antibiotic-resistant bacterial infections.
Storage	Store at -20°C , and keep desiccated.



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