

Product Datasheet

Ceftaroline hydrochloride (orb3177650)

Catalog Number	orb3177650
Category	Small Molecules
Description	Ceftaroline hydrochloride (T-91825 HCl, PPI-0903M HCl) is an N-phosphorylated cephalosporin antibiotic and the active form released upon dephosphorylation of the prodrug TAK-599 (ceftaroline fosamil) after it enters the body. Its mechanism of action involves high affinity for penicillin-binding protein 2a (PBP2a), which is associated with methicillin-resistant Staphylococcus aureus (MRSA) resistance (IC50 = 0.90 µg/mL). Ceftaroline hydrochloride kills various Gram-positive and Gram-negative bacteria by blocking bacterial cell wall synthesis, including resistant strains such as MRSA, methicillin-resistant Staphylococcus epidermidis (MRSE), and Streptococcus pneumoniae.
Purity	99.25% (May vary between batches)
MW	677.63
CAS Number	614758-10-0
Formula	C ₂₂ H ₂₂ Cl ₂ N ₈ O ₅ S ₄
SMILES	<chem>C(O)(=O)C=1N2[C@@]([C@H](NC(/C(=N\OCC)/C3=NSC(N)=N3)=O)C2=O)(SCC1SC4=NC(=CS4)C=5C=C[N+](C)=CC5)[H].[Cl-].Cl</chem>
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558