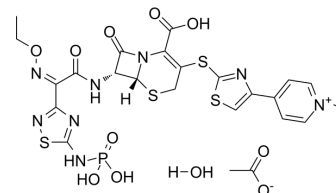


Ceftaroline fosamil hydrate

Cat. No.:	HY-14737A
CAS No.:	400827-55-6
Molecular Formula:	C ₂₄ H ₂₇ N ₈ O ₁₁ PS ₄
Molecular Weight:	762.75
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ceftaroline fosamil hydrate is a potent cephalosporin antibiotic. Ceftaroline fosamil hydrate shows broad-spectrum activity against Gram-positive pathogens, including methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) and multidrug-resistant <i>Streptococcus pneumoniae</i> , and common Gram-negative organisms. Ceftaroline fosamil hydrate has anti-infective activity, and can be used for the research of complicated skin and skin structure infections (cSSSIs) and community-acquired bacterial pneumonia (CABP) ^{[1][2][3]} .
IC₅₀ & Target	β-lactam
In Vivo	Ceftaroline fosamil hydrate (s.c.) shows protective effects against experimental systemic infection caused by <i>S. aureus</i> N133 in mice, with ED ₅₀ s of 1.60-2.37 mg/kg ^[1] . Ceftaroline fosamil hydrate (10 mg/kg; s.c.) disappears rapidly and converts smoothly into T-91825 in blood of rats and monkeys ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Antimicrob Agents. 2021 Sep 12;106434.
- Clin Chem. 2019 Dec;65(12):1522-1531.

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REFERENCES

[1]. Ishikawa T, et, al. TAK-599, a novel N-phosphono type prodrug of anti-MRSA cephalosporin T-91825: synthesis, physicochemical and pharmacological properties. *Bioorg Med Chem*. 2003 May 29;11(11):2427-37.

[2]. Biek D, et al. Ceftaroline fosamil: a novel broad-spectrum cephalosporin with expanded anti-Gram-positive activity. *J Antimicrob Chemother*. 2010 Nov;65 Suppl 4:iv9-16.

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

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