

Vancomycin prodrug

Chemical Properties

CAS No. :

Formula: C₈₅H₉₅Cl₂N₁₁O₂₉

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Vancomycin prodrug (compound 13c) is a prodrug of Vancomycin. It exhibits antibacterial activity against Staphylococcus aureus (S. aureus) 330041, methicillin-resistant Staphylococcus aureus (MRSA) USA 300, and MRSA 3390, with minimum inhibitory concentrations (MICs) of 0.78 μM, 0.78 μM, and 1.56 μM, respectively. This prodrug can rapidly bind to the Cys-34 residue in plasma. It demonstrates therapeutic efficacy in mice infected with MRSA USA300, comparable to Vancomycin. As an albumin-binding, acid-sensitive prodrug, Vancomycin prodrug maintains Vancomycin's effectiveness against gram-positive bacterial infections while significantly reducing nephrotoxicity.
Targets(IC50)	Antibacterial,Antibiotic,Autophagy

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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