Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Vancomycin

Catalog No: tcsc3242

Available Sizes

Size: 250mg

Specifications

CAS No:
1404-90-6

Formula:
$C_{66}H_{75}Cl_2N_9O_{24}$

Pathway:
Anti-infection

Target:
Bacterial

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
1449.25

Product Description

Vancomycin is an antibiotic for the treatment of bacterial infections.

In Vitro: Vancomycin is a large glycopeptide compound with a molecular weight of 1450 Da[1]. Vancomycin is a unique glycopeptide structurally unrelated to any currently available antibiotic. It also has a unique mode of action inhibiting the second stage of cell wall synthesis of susceptible bacteria. Vancomycin is active against a large number of species of Gram-positive bacteria, such as *Staphylococcus aureus, Staph. epidermidis, Str. agalactiae, Str. bovis, Str. mutans, viridans streptococci, enterococci*[2].

In Vivo: Vancomycin is administered intravenously, with a standard infusion time of at least 1 h, to minimize infusion-related

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adverse effects. Subjects with normal creatinine clearance, vancomycin has an α-distribution phase of 30 min to 1 h and a β-elimination half-life of 6-12 h. The volume of distribution is 0.4–1 L/kg. The binding of vancomycin to protein ranges from 10% to 50%. Factors that affect the overall activity of vancomycin include its tissue distribution, inoculum size, and protein-binding effects[1]. Vancomycin treatment of infected mice is associated with improved clinical, diarrhea, and histopathology scores and survival during treatment[3].