Chloramphenicol succinate
PRODUCT DATA SHEET
issue date 10/11/2017

Product Name: Chloramphenicol succinate
Product Number: C169
CAS Number: 3544-94-3
Molecular Formula: C_{15}H_{16}Cl_{2}N_{2}O_{8}
Molecular Weight: 423.2
Appearance: White solid
Storage Conditions: -20°C
Description: Chloramphenicol succinate is prepared by acylation of chloramphenicol with succinic anhydride to provide a water soluble pro-drug. Chloramphenicol succinate represents an alternative pro-drug strategy for chloramphenicol that has found a niche in surface antibiotic treatment in surgery. Chloramphenicol succinate is significantly less active than chloramphenicol but acts as a prodrug, forming chloramphenicol in the presence of succinate dehydrogenase.

Mechanism of Action: After entering a bacterial cell, chloramphenicol binds to the 50S ribosomal subunit preventing peptide bond formation. Resistance to chloramphenicol may be due to decreased cell permeability or a mutation in the 50S ribosomal subunit.


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