PRODUCT DATA SHEET

Chloramphenicol palmitate

Code No.: BIA-C1477
Pack sizes: 5 mg, 25 mg

Synonyms: Chloramphenicol 3-palmitate

Specifications
CAS # : 530-43-8
Molecular Formula : C_{27}H_{42}Cl_2O_6
Molecular Weight : 561.5
Source : Semi-synthetic
Appearance : White solid
Purity : >99% by HPLC
Long Term Storage : -20°C
Solubility : Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes
Chloramphenicol palmitate is prepared by acylation of chloramphenicol with palmitic acid. Although chloramphenicol palmitate is a more hydrophobic drug which should enhance bioavailability, the primary advantage of the ester is to mask the taste of chloramphenicol in oral formulations. Chloramphenicol palmitate is significantly less active than chloramphenicol but acts as a prodrug, being readily hydrolysed by acid and esterase in the gut to release chloramphenicol.

References