

Product Name:	Corynecin III
Product Number:	C186
CAS Number:	18048-95-8
Molecular Formula:	$C_{13}H_{18}N_2O_5$
Molecular Weight:	282.3
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Corynecin III (methamphenicol) is a member of a naturally-occurring complex of chloramphenicol-like acyl nitrophenylpropylamines isolated from <i>Corynebacterium hydrocarboclastus</i> in 1972. Corynecin III is active against Gram positive and Gram negative bacteria. Although less potent than chloramphenicol, corynecin III shows a similar species selectivity. Corynecin III was used as a bioisostere of chloroamphenicol to examine the binding relationship of chloramphenicols to DraE virulence factor.</p> <p>Corynecin III is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>Production of antibacterial compounds analogues to chloramphenicol by a n-paraffin-grown bacterium. Suzuki T. et al. Agri. Biol. Chem. 1972, 36, 2223.</p> <p>The structure of corynecins; chloramphenicol by a n-paraffin-grown bacterium. Shirahata K. et al. Agri. Biol. Chem. 1972, 36, 2229.</p> <p>A structural study of the interaction between the Dr haemagglutinin DraE and derivatives of chloramphenicol. Pettigrew D.M. et al. Acta Cryst. Set. D 2009, 65, 513.</p>