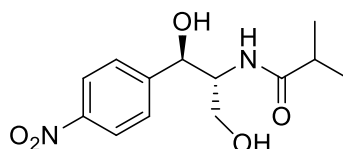


Corynecin III

Code No.: **BIA-C1482**

Pack sizes: **1 mg, 5 mg**



Synonyms : Methamphenicol

Specifications

CAS #	: 18048-95-8
Molecular Formula	: C₁₃H₁₈N₂O₅
Molecular Weight	: 282.3
Source	: <i>Corynebacterium</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Corynecin III (methamphenicol) is a member of a naturally-occurring complex of chloramphenicol-like acyl nitrophenylpropylamines isolated from *Corynebacterium hydrocarboclastus* 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.

References

1. Production of antibacterial compounds analogues to chloramphenicol by a n-paraffin-grown bacterium. Suzuki T. et al., Agri. Biol. Chem. 1972, 36, 2223.
2. The structure of corynecins; chloramphenicol by a n-paraffin-grown bacterium. Shirahata K. et al., Agri. Biol. Chem. 1972, 36, 2229.
3. 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.