

Thiamphenicol

Catalog No: tcsc2593



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

15318-45-3

Formula:

$C_{12}H_{15}Cl_2NO_5S$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 3.6 mg/mL (10.11 mM)

Alternative Names:

Thiophenicol;Dextrosulphenidol

Observed Molecular Weight:

356.22

Product Description

Thiamphenicol is an antimicrobial antibiotic and a methyl-sulfonyl analogue of chloramphenicol.

Target: Antibacterial

Thiamphenicol (also known as thiophenicol and dextrosulphenidol) is an antibiotic. It is the methyl-sulfonyl analogue of chloramphenicol and has a similar spectrum of activity, but is 2.5 to 5 times as potent. Like chloramphenicol, it is insoluble in water, but highly soluble in lipids. It is used in many countries as a veterinary antibiotic, but is available in China, Morocco and Italy for use in humans. Its main advantage over chloramphenicol is that it has never been associated with aplastic anaemia. Thiamphenicol is a derivative of chloramphenicol characterized by a spectrum comparable to that of the parent compound against multiresistant pathogens but showing satisfactory tolerability. Thiamphenicol showed a significant PAE (0.33 to 2.9h) on all pathogens studied and a powerful bactericidal effect against beta-lactamase-positive and -negative *H. influenzae*. These results indicate a good in vitro activity of thiamphenicol against difficult-to-treat multiply resistant pathogens [1, 2].

