

Tulathromycin A

Catalog No: tcsc1622



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

217500-96-4

Formula:

$C_{41}H_{79}N_3O_{12}$

Pathway:

Anti-infection

Target:

Bacterial

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 45 mg/mL (55.83 mM)

Alternative Names:

Tulathromycin;CP 472295

Observed Molecular Weight:

806.08

Product Description

Tulathromycin A is a macrolide antibiotic.

IC50 Value: 1 microg/ml (MIC90 for *Pasteurella multocida*) [2]

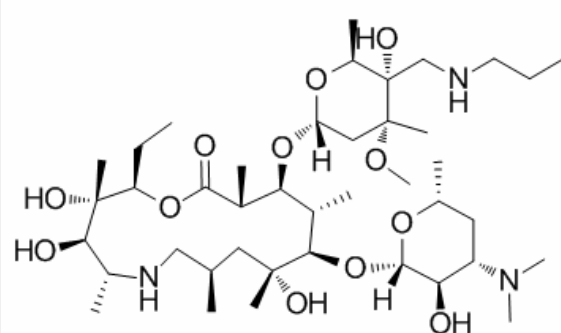
Target: Antibacterial

in vitro: Two highly pathogenic strains of *M. bovis* (with minimum inhibitory concentration values for tulathromycin of 1 and >64 microg/ml) were inoculated into 145 calves. Four days after inoculation, calves with clinical BRD were treated subcutaneously with saline or tulathromycin (2.5 mg/kg). Compared with saline, BRD-related withdrawals, peak rectal temperatures, and lung lesion scores were significantly lower for tulathromycin-treated calves (P 64 microg/ml) [1]. The lowest concentrations inhibiting the growth of 90% of isolates (MIC90) for tulathromycin were 2 microg/ml for *Mannheimia* (*Pasteurella*) *haemolytica*, 1 microg/ml for *Pasteurella multocida* (bovine), and 2 microg/ml for *Pasteurella multocida* (porcine) and ranged from 0.5 to 4 microg/ml for *Histophilus somni* (*Haemophilus somnus*) and from 4 to 16 microg/ml for *Actinobacillus pleuropneumoniae* [2].

in vivo: Each study randomly allocated 250 calves to receive tulathromycin at 2.5 mg/kg and 250 calves to receive either tilmicosin at 10 mg/kg (Colorado site) or florfenicol at 40 mg/kg (Idaho and Texas sites) on arrival at the feedlot. Calves were housed by treatment group in pens with 50 calves/pen [3]. The treatment groups were physiologic saline (n = 160) given SC at 0.02 ml/kg, tulathromycin (n = 320) given SC at 2.5 mg/kg, and tilmicosin (n = 320) given SC at 10 mg/kg [4]. Tulathromycin is a triamilide antimicrobial that has been approved for use in the treatment and prevention of bovine respiratory disease and the treatment of swine respiratory disease.

Toxicity: No adverse events related to tulathromycin were reported [4].

Clinical trial:



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