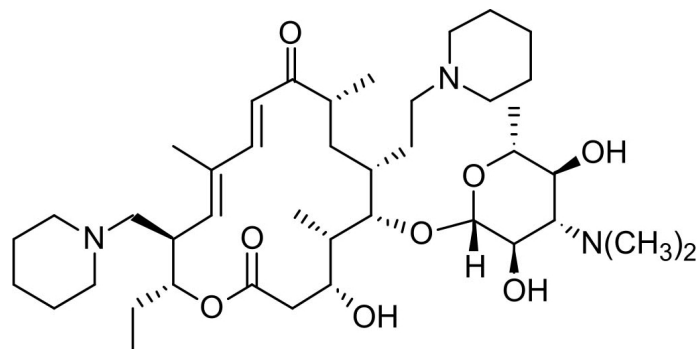


Tildipirosin

Code No.: BIA-T1569

Pack sizes.: 1mg, 5mg



Synonyms:

-

Specifications

CAS #	: 328898-40-4
Molecular Formula	: C41H71N3O8
Molecular Weight	: 734
Source	: -
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Tildipirosin is a semi-synthetic antibiotic derived from a tylosin derivative by iodination and reaction with piperidine. The introduction of a third basic moiety into the tylosin core provides a wider spectrum of antibiotic action than the dibasic analogues such as tilmicosin, in particular good protection against *Pasteurella* in livestock. Tildipirosin's interaction with the ribosomal site of action differs from that of tylosin and tilmicosin.

References

1. Macrolide antibiotics and treatment and prophylaxis of Pasteurellosis using the same. Miyake et al., US Patent 6514946 2003.
2. Visualizing the 16-membered ring macrolides, tildipirosin and tilmicosin, bound to their ribosomal site. Poehlsgaard J. et al., ACS Chem. Biol. 2012, 7, 1351.
3. Inhibition of protein synthesis on the ribosome by tildipirosin compared with other veterinary macrolides. Andersen N.M. et al., Antimicrob. Agents Chemother. 2012, 56, 6033.