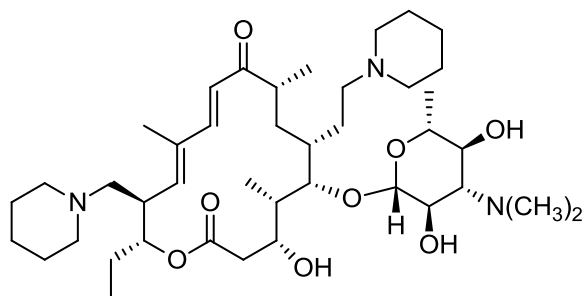


Tildipirosin

Code No.: **BIA-T1569**

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



Synonyms :

Specifications

CAS #	: 328898-40-4
Molecular Formula	: C₄₁H₇₁N₃O₈
Molecular Weight	: 734.0
Source	: Semi-synthetic
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.

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