

## PRODUCT DATA SHEET

Code No.: BIA-T1569

Pack sizes: 1 mg, 5 mg

Synonyms :

## Specifications

**Tildipirosin** 

CAS # : 328898-40-4 Molecular Formula :  $C_{41}H_{71}N_3O_8$ 

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**

Tildiprosin 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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