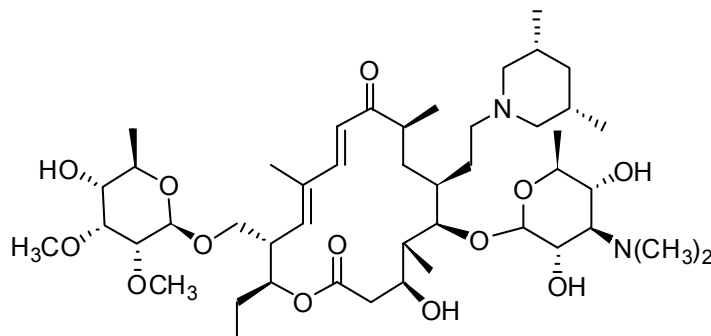


Tilmicosin

Code: **BIA-T1323**

Pack sizes: **25 mg, 100 mg**



Synonyms : **20-Deoxy-20-(3,5-dimethylpiperidin-1-yl)-desmycosin, EL-870**

Specifications

CAS # : **108050-54-0**
Molecular Formula : **C₄₆H₈₀N₂O₁₃**
Molecular Weight : **869.2**
Source : **Semi-synthetic**
Appearance : **White solid**
Purity : **>98%**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.**

Application Notes

Tilmicosin is a semi-synthetic antibiotic derivative of desmycosin (tylosin B), a minor co-metabolite of tylosin. Desmycosin itself is prepared by the partial hydrolysis of tylosin with the loss of the mycarosyl sugar. Reductive amination of the free aldehyde of desmycosin with 3,5-dimethylpiperidine affords tilmicosin. The piperidinyl group at C20 provides a wider spectrum of antibiotic action, in particular good protection against *Pasteurella* in livestock.

References

1. Synthesis and antimicrobial evaluation of 20-deoxy-20-(3,5-dimethylpiperidin-1-yl)desmycosin (Tilmicosin, EL-870) and related cyclic amino derivatives. Debono M. *et al.* J. Antibiot. **1989**, 42, 1253.