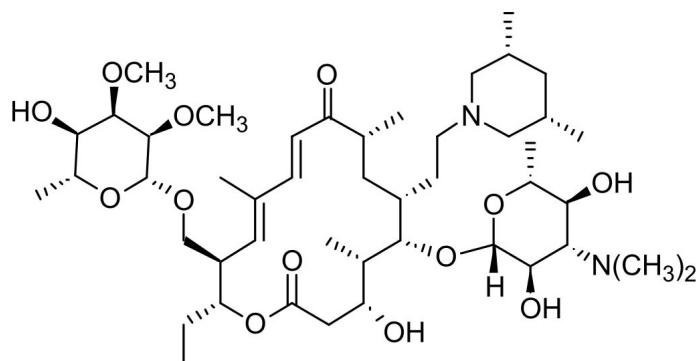


Tilmicosin

Pack sizes.: 25mg, 100mg



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	: -
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Tilmicosin is a semi-synthetic antibiotic derived from desmycosin (tylosin B), a minor co-metabolite of tylosin. Tilmicosin is produced by reductive amination of desmycosin. Desmycosin itself is prepared by the partial hydrolysis of tylosin with the loss of the mycarosyl sugar. The piperidiny group at C20 of tilmicosin 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.