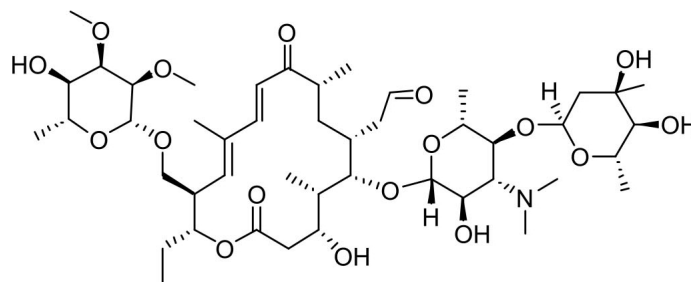


## Tylosin

Code No.: BIA-T1549

Pack sizes.: 5mg, 25mg



### Synonyms:

Dehydrorelomycin, Tylosin A

## Specifications

CAS #	: <b>1401-69-0</b>
Molecular Formula	: <b>C46H77NO17</b>
Molecular Weight	: <b>916.1</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;99% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Moderater water solubility.</b>

## Application Notes

Tylosin is a 16-membered macrocyclic lactone isolated from *Streptomyces fradiae* in 1961. Tylosin has broad spectrum antibacterial activity and was developed as a veterinary pharmaceutical for treatment of bacterial infections in a range of domestic animals. Tylosin acts by binding to the 50S ribosomal subunit resulting in the inhibition of protein synthesis in bacteria.

## References

1. Tylosin, a new antibiotic. I. Microbiological studies McGuire W. S. et al., *Antibiot. Chemother.* 1961, 11, 328.
2. Tylosin, a new antibiotic. II. Isolation, properties, and preparation of desmycosin, a microbiologically active degradation product. Hamill R. L. et al. *Antibiot. Chemother.* 1961, 11, 328.
3. The structure of tylosin Morin R. B. et al., *Tet. Lett.* 1970, 54, 4737.