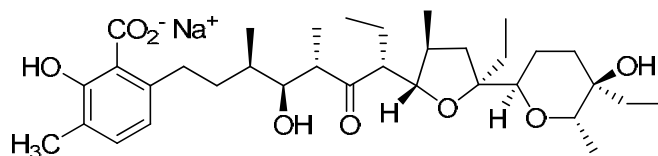


## Lasalocid sodium

Code: **BIA-L1302**

Pack sizes: **5 mg, 25 mg**



Synonyms : **Avatec, Bovatec, Antibiotic Ro 2-2985. Antibiotic X 537A**

## Specifications

CAS # : **25999-31-9**  
Molecular Formula : **C<sub>34</sub>H<sub>54</sub>O<sub>8</sub>**  
Molecular Weight : **590.8**  
Source : ***Streptomyces* sp.**  
Appearance : **White solid**  
Purity : **>95%**  
Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

## Application Notes

Lasalocid is a polyether ionophore with potent antibacterial activity. Lasalocid was developed as an animal health product for treatment of coccidia. Lasalocid is able to form neutral complexes with monovalent and divalent cations and transport the ions through apolar phase (including lipid bilayer membranes). Interestingly, lasalocid can also transport larger organic cations, e.g. protonated dopamine.

## References

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4. Biogenic amine-ionophore interactions: Structure and dynamics of lasalocid (X537A) complexes with phenethylamines and catecholamines in nonpolar solution. Shen C. & Patel D. J. Proc Natl Acad Sci USA. 1977, 74, 4734.
5. The effect of amine structure on complexation with lasalocid in model membrane systems. I. Identification of charged complexes in lipid bilayer membranes. Kinsel J.F. Biochim Biophys Acta. 1982, 684, 233.