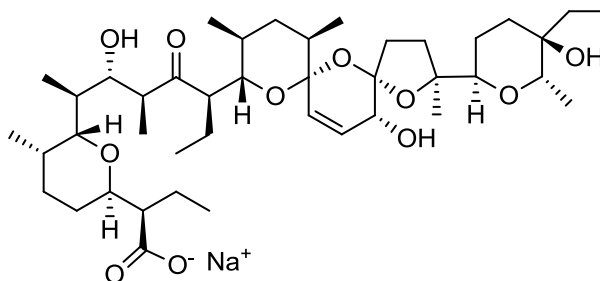


Salinomycin sodium

Code No.: **BIA-S1540**

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



Synonyms :

Specifications

CAS #	: 55721-31-8
Molecular Formula	: $C_{42}H_{70}NaO_{11}$
Molecular Weight	: 774.0
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Salinomycin sodium is prepared from salinomycin taking advantage of the acidic carboxylic acid which ionises and readily forms the salt in sodium hydroxide solutions. The sodium salt is the preferred formulation in animals to prevent coccidiosis and to promote growth. Salinomycin has a high affinity for monovalent cations, particularly potassium. Recently, salinomycin has been shown to inhibit cancer stem cells.

References

1. Salinomycin, a new polyether antibiotic. Miyazaki Y. et al. J. Antibiot. 1974, 27, 814.
2. The structure of salinomycin, a new member of the polyether antibiotics. Kinashi H. Tetrahed. Lett. 1973, 49, 4955.
3. Identification of selective inhibitors of cancer stem cells by high-throughput screening. Gupta P. B. et al. Cell 2009, 138, 645.

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