

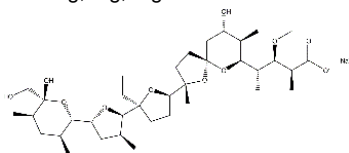
PRODUCT: Monensin A Sodium

ALTERNATE NAMES: Monensin A; NSC 343257; Rumensin®; 2,5-ethyltetrahydro-5-[tetrahydro-3-methyl-5-[tetrahydro-6-hydroxy-6-hydroxymethyl-3,5-dimethyl-2H-pyran-2-yl]-2-furyl]-2-furyl-9-hydroxy-b-methoxy-a,g,2,8-tetramethyl-1,6-dioxaspiro[4.5]decane-7-butyric acid, monosodium salt; ionophore antibiotic

CATALOG#: B1623-500, -1G, -5G

AMOUNT: 500 mg, 1 g, 5 g

STRUCTURE:



MOLECULAR FORMULA: C₃₆H₆₁O₁₁Na

MOLECULAR WEIGHT: 692.9

CAS NUMBER: 22373-78-0

APPEARANCE: A crystalline solid

SOLUBILITY: Ethanol (15 mg/ml); Dimethyl Formamide (1 mg/ml)

PURITY: >98%

STORAGE: Store at -20°C. Protect from air and light.

DESCRIPTION: Sodium Monensin, isolated from *Streptomyces cinnamomensis*, is a well-known representative of naturally polyether ionophore antibiotics. It preferentially forms complexes with monovalent cations to enable transport across lipid membranes.

REFERENCES: 1. Aowicki, D., and Huczynski, A. Structure and antimicrobial properties of monensin A and its derivatives: Summary of the achievements. *Biomed.Res.Int.* 2013, 1-14 (2013).

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- A23187 (Cat. No. 1501-10)
- Ionomycin, Calcium Salt (Cat. No. 1566-5)
- Ionomycin, Free Acid (Cat. No. 1565-5)

USAGE: *FOR RESEARCH USE ONLY! Not to be used in humans*