

Product Name: Salinomycin sodium salt

Catalog No.: 3637

Batch No.: 1

CAS Number: 55721-31-8

IUPAC Name: (2R)-2-[(2R,5S,6R)-6-[(3S,5S,7R,9S,10S,12R,15R)-3-[(2R,5R,6S)-5-Ethyl-5-hydroxy-6-methyloxan-2-yl]-15-hydroxy-3,10,12-trimethyl-4,6,8-trioxadisp[4.1.5.3]pentadec-13-en-9-yl]-3-hydroxy-4-methyl-5-oxooctan-2-yl]-5-methyloxan-2-yl]butanoic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₂H₆₉NaO₁₁·H₂O

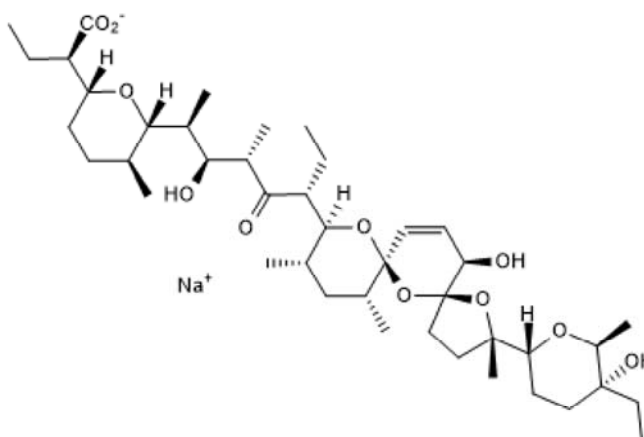
Batch Molecular Weight: 791

Physical Appearance: White solid

Solubility: DMSO to 50 mM
ethanol to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 63.78 9.05

Found 63.41 9.07

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Cytotoxic to breast cancer stem cells. Inhibits CD44 expression in breast cancer cells in vitro. Inhibits mammary tumor growth in mice. Also antibiotic.

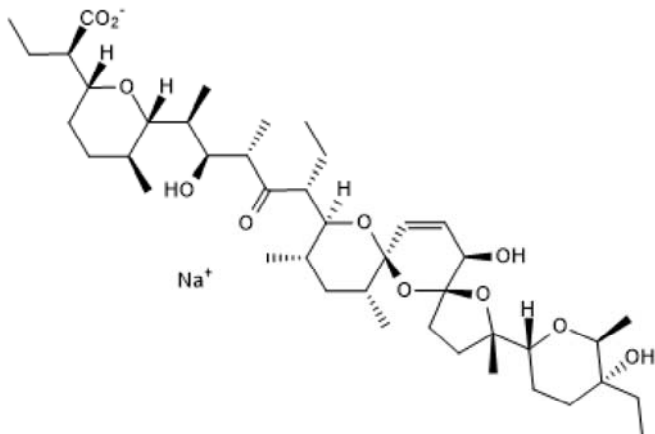
Physical and Chemical Properties:

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Batch Molecular Weight: 791

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gupta *et al* (2009) Identification of selective inhibitors of cancer stem cells by high-throughput screening. Cell **138** 645. PMID: 19682730.

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