

Product Name: Nanchangmycin

Catalog No.: 6183

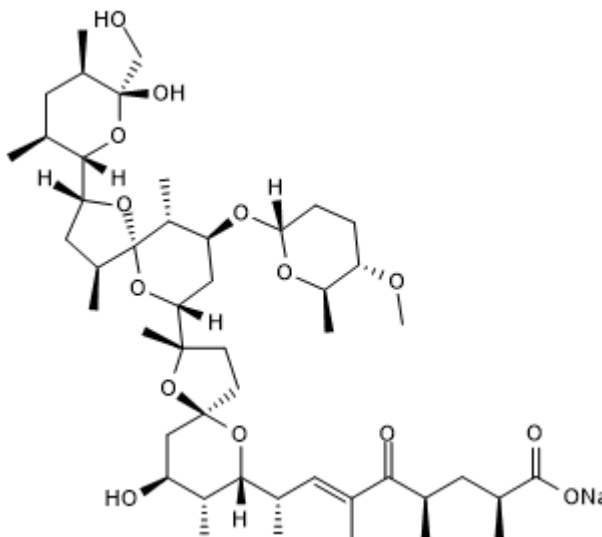
Batch No.: 1

CAS Number: 65101-87-3

IUPAC Name: (2*S*,4*R*,6*E*,8*S*)-8-[(2*S*,2'*R*,4'*S*,5*R*,5'*S*,7*R*,7'*R*,8*R*,9*S*,9'*S*,10'*R*)-9-Hydroxy-2,4',8,10'-tetramethyl-2'-[(2*S*,3*S*,5*R*,6*R*)-tetrahydro-6-hydroxy-6-(hydroxymethyl)-3,5-dimethyl-2*H*-pyran-2-yl]-9'-[(2*S*,5*S*,6*R*)-tetrahydro-5-methoxy-6-methyl-2*H*-pyran-2-yl]oxy][2,7'-bi-1,6-dioxaspiro[4.5]dec]-7-yl]-2,4,6-trimethyl-5-oxo-6-nonenic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₇ H ₇₇ NaO ₁₄
Batch Molecular Weight:	889.1
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

¹H NMR:	Consistent with structure		
Mass Spectrum:	Consistent with structure		
Microanalysis:	Carbon Hydrogen Nitrogen		
	Theoretical	63.49	8.73
	Found	63.89	9.07

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

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Description:

Antiviral. Inhibits Zika virus entry in a range of cell types including primary placental fibroblast cells, HUVECs and UtMECs (IC₅₀ values are 0.1, 0.4 and 0.97 μM in U2OS, HBMECs and Jeg-3 cells respectively). Also inhibits cellular uptake of West Nile, dengue, sindbis and chikungunya viruses.

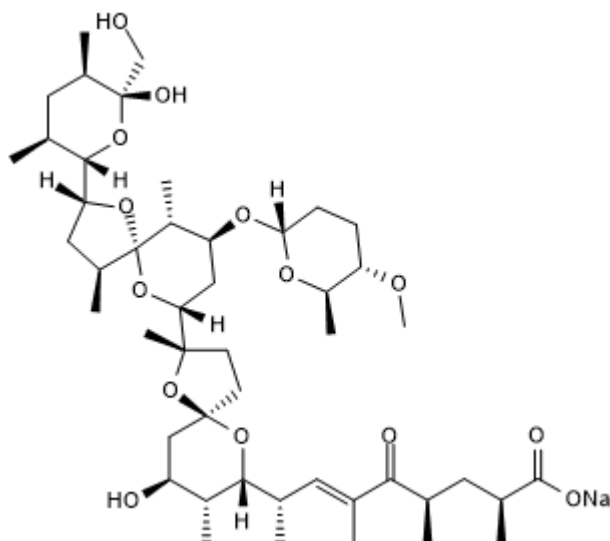
Physical and Chemical Properties:

Batch Molecular Formula: C₄₇H₇₇NaO₁₄

Batch Molecular Weight: 889.1

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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:

Rausch *et al* (2017) Screening Bioactives Reveals Nanchangmycin as a Broad Spectrum Antiviral Active against Zika Virus. *Cell Rep.* **18** 804. PMID: 28099856.

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