Product Name: Nanchangmycin
Catalog No.: 6183
Batch No.: 1

CAS Number: 65101-87-3
IUPAC Name: (2S,4R,6E,8S)-8-[(2S,2'R,4'S,5'R,7'R,7'R,8'R,9'S,9'R,10'R)-9-Hydroxy-2,4',8,10'-tetramethyl-2'-[(2S,3S,5R,6R)-tetrahydro-6-hydroxy-6-(hydroxymethyl)-3,5-dimethyl-2H-pyran-2-yl]-9'-([(2S,5S,6R)-tetrahydro-5-methoxy-6-methyl-2H-pyran-2-yl]oxy)[2,7'-bi-1,6-dioxaspiro[4.5]dec]-7-yl]-2,4,6-trimethyl-5-oxo-6-nonenoic 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

2. ANALYTICAL DATA

\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>63.49</td>
<td>63.89</td>
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<tr>
<td>Hydrogen</td>
<td>8.73</td>
<td>9.07</td>
</tr>
</tbody>
</table>

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

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Product Information

Product Name: Nanchangmycin

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: C46H72NaO14
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: