Product Name: Streptozocin
Catalog No.: 1621
Batch No.: 7
CAS Number: 18883-66-4
IUPAC Name: 2-Deoxy-2-[[methylnitrosoamino]carbonyl]amino]-D-glucose

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_8H_15N_3O_7
Batch Molecular Weight: 265.22
Physical Appearance: Off White solid
Solubility: water to 100 mM
                DMSO to 100 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +71.7\) (Concentration = 1, Solvent = Water)
Microanalysis: Carbon Hydrogen Nitrogen

<table>
<thead>
<tr>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>36.23</td>
<td>36.41</td>
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<tr>
<td>5.7</td>
<td>5.72</td>
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<td>15.84</td>
<td>15.76</td>
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</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Streptozocin  
Catalog No.: 1621  
Batch No.: 7  
CAS Number: 18883-66-4  
EC Number: 242-646-8  
IUPAC Name: 2-Deoxy-2-[[[methyl nitrosoamino]carbonyl]amino]-D-glucose

**Description:**  

**Physical and Chemical Properties:**  
Batch Molecular Formula: C₉H₁₃N₂O₇  
Batch Molecular Weight: 265.22  
Physical Appearance: Off White solid  
Minimum Purity: >95%

**Storage:** Store at -20°C  
**Solubility & Usage Info:**  
- water to 100 mM  
- DMSO to 100 mM  
ANTINEOPLASTIC SUBSTANCE - TREAT AS EXTREMELY POISONOUS

**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:**  