Product Name: Streptozocin
CAS Number: 18883-66-4
IUPAC Name: 2-Deoxy-2-[(methylamino)carbonyl]amino]-D-glucose

1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula:  $\text{C}_8\text{H}_{15}\text{N}_3\text{O}_7$.  
   Batch Molecular Weight: 265.22
   Physical Appearance: White to off-white solid
   Solubility: water to 100 mM, DMSO to 100 mM
   Storage: Store at -20°C
   Batch Molecular Structure:

   ![Molecular Structure](image)

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   $^1$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>36.23</td>
<td>36.26</td>
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<tr>
<td>Hydrogen</td>
<td>5.7</td>
<td>5.74</td>
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<tr>
<td>Nitrogen</td>
<td>15.84</td>
<td>15.79</td>
</tr>
</tbody>
</table>

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

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Description:
Streptozocin is an antibiotic and antitumor agent. Alkylates DNA and induces diabetes mellitus via reduction of nicotinamide adenine dinucleotide in pancreatic β-cells in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₉H₆N₄O₇.
Batch Molecular Weight: 265.22
Physical Appearance: White to 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: