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# DATASHEET

## Streptozocin

### Product overview

<b>Name</b>	Streptozocin
<b>Cat No</b>	HB4097
<b>Alternative names</b>	STZ
<b>Purity</b>	>98%
<b>Description</b>	Antibiotic. Diabetes inducer.

### Biological Data

<b>Biological description</b>	Antibiotic. Induces diabetes via toxic effects on pancreatic beta-cells.  Alkylates DNA and also produces DNA strand breaks to induce DNA damage.  Shows antitumor activity.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM) and water (100 mM)
<b>Handling</b>	Once the compound is in solution it spontaneously releases NO gas at room temperature. We therefore recommend to prepare fresh solutions immediately before use.
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	2-Deoxy-2-[[[(methylnitrosoamino)carbonyl]amino]-D-glucose
<b>Molecular Weight</b>	265.22
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>15</sub> N <sub>3</sub> O <sub>7</sub>
<b>CAS Number</b>	18883-66-4
<b>PubChem identifier</b>	29327
<b>SMILES</b>	CN(C(=O)N[C@@H]1[C@H]([C@@H]([C@H](O[C@@H]1O)CO)O)O)N=O
<b>InChiKey</b>	ZSJLQEPLLKMAKR-JWMKEVCDSA-N
<b>MDL number</b>	MFCD00006607
<b>Appearance</b>	White to off-white