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DATASHEET

Streptozocin

Product overview

Name	Streptozocin
Cat No	HB4097
Alternative names	STZ
Purity	>98%
Description	Diabetes and icv-STZ Alzheimer's disease model inducer

Biological Data

Biological description	Antibiotic. Induces diabetes via toxic effects on pancreatic beta-cells and used to induce the icv-STZ Alzheimer's disease model. Alkylates DNA and also produces DNA strand breaks to induce DNA damage. Shows antitumor activity.
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Solubility & Handling

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

Chemical Data

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