

## Streptozocin PRODUCT DATA SHEET

issue date 01/06/2020

Product Name: Streptozocin

Product Number: \$009

CAS Number: 18883-66-4 Molecular Formula:  $C_8H_{15}N_3O_7$ 

Molecular Weight: 265.22 Form: Powder

Appearance:Pale yellow crystalline powderSource:Streptomyces achromogenes

Water Content (Karl

Fischer):

≤1.0%

Optical Rotation: +39°
Storage Conditions: -20°C

**Description:** Streptozocin is a last resort anti-tumor agent commonly used to treat

metastatic cancer of pancreatic islet cells. Streptozocin is freely soluble in

aqueous solution (>100 mg/mL).

Mechanism of Action: Streptozocin acts as an alkylating agent which damages DNA by adding

methyl and other alkyl groups which interfere with normal base pairing.

Cancer Applications Streptozocin has shown to decrease tumor size and relevant tumor-induced

symptoms including hypoglycemia.

References: Murray-Lyon IM, Eddleston AL, Williams R, Brown M, Hogbin BM, Bennett A,

Edwards JC, Taylor KW (1968). "Treatment of multiple-hormone-producing malignant islet-cell tumour with streptozotocin". *Lancet* **2** (7574): 895–8.

Broder LE, Carter SK. Pancreatic islet cell carcinoma. II. Results of therapy

with streptozotocin in 52 patients . Ann Intern Med 1973;79:108–18.

Moertel CG, Hanley JA, Johnson LA. Streptozocin alone compared with streptozocin plus fluorouracil in the treatment of advanced islet-cell carcinoma .

N Engl J Med 1980;303:1189-94.

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/