Product Name: Streptozocin

Product Number: S009

CAS Number: 18883-66-4

Molecular Formula: \( C_8H_{15}N_3O_7 \)

Molecular Weight: 265.22

Form: Powder

Appearance: Pale yellow crystalline powder

Source: *Streptomyces achromogenes*

Water Content (Karl Fisher): \( \leq 1.0\% \)

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:

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