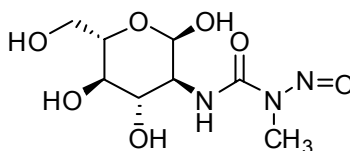


Streptozotocin

Code: **BIA-S1186**

Pack sizes: **25 mg, 100mg**



Synonyms : **Zanosar, NSC85998, Antibiotic U9889, Antibiotic 1006-60**

Specifications

CAS # : **18883-66-4**
Molecular Formula : **C₈H₁₅N₃O₇**
Molecular Weight : **265.2**
Source : ***Streptomyces achromogenes* MST-AS4002**
Appearance : **White solid**
Purity : **>99% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in water**

Application Notes

Streptozotocin is an unusual aminoglycoside containing a nitrosoamino group produced by *Streptomyces achromogenes* discovered in 1959 as an antibiotic. The nitrosoamino group enables the metabolite to act as a nitric oxide (NO) donor. NO is an important messenger molecule involved in many physiological and pathological processes in the body. Streptozotocin is also widely used to induce diabetes in rodent models by inhibition of β -cell O-GlcNAcase.

References

1. Streptozotocin and its production. Bergy M. E. et al., US Patent 3,027,300 **1958**.
2. Studies on the diabetogenic action of streptozotocin. Rakieten N. et al., Cancer Chemother. Rep. **1963**, 29, 91.
3. Nitric oxide generation from streptozotocin. Kwon N.S. et al., FASEB J. **1994**, 8, 529.