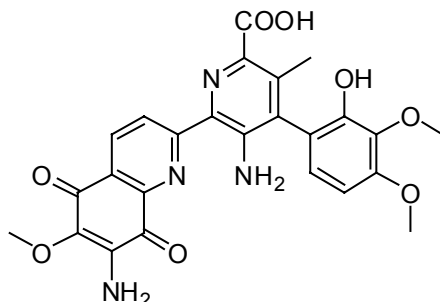


Streptonigrin

Code: **BIA-S1107**

Pack size: **1 mg, 5 mg**



Synonyms : **Bruneomycin, Nigrin, Rufocromomycin, Valacidin, Antibiotic RP 5278**

Specifications

CAS # : **3930-19-6**
Molecular Formula : **C₂₅H₂₂N₄O₈**
Molecular Weight : **506.5**
Source : ***Streptomyces* sp. MST-AS5763**
Appearance : **Brown black solid**
Purity : **> 95% by HPLC**
Long Term Storage : **- 20 °C**
Solubility : **Soluble in DMSO**

Application Notes

Streptonigrin is an unusual aminoquinone with broad biological activity against bacteria, fungi, nematodes, viruses and tumor cells. Streptonigrin acts as a bioreductive agent, highly dependent on interactions with metal ions, notably iron, and plays an important role in free radical production through redox cycling of NAD(P)H:quinone oxidoreductase (NQO1).

References

1. Targeting NAD(P)H:quinone oxidoreductase (NQO1) in pancreatic cancer. Lewis A.M. Mol. Carcinogen. 2005, 43, 215.
2. Enhanced cytotoxicity of bioreductive antitumor agents with dimethyl fumarate in human glioblastoma cells. Gu B. & DeAngelis L.M. Anticancer Drugs 2005, 16, 167.
3. The effect of metal ions on the electrochemistry of the antitumor antibiotic streptonigrin. Anderberg P.I. J. Inorg. Biochem. 2004, 98, 720.