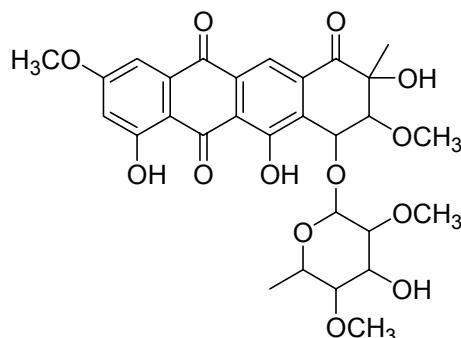


Steffimycin B

Code: **BIA-S1087**

Pack sizes: **1.0 mg, 5.0 mg**



Synonyms : **Antibiotic U 40615**

Specifications

CAS # : **54526-94-2**
Molecular Formula : **C₂₉H₃₂O₁₃**
Molecular Weight : **588.6**
Source : ***Streptomyces* sp. MST-AS5455**
Appearance : **Red solid**
Purity : **> 99% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Steffimycin B is an anthracycline metabolite isolated from a *Streptomyces* sp. displaying antibacterial and antineoplastic properties. Binding to DNA, crystallographic studies suggest that it has a higher CpG base sequence specificity over the TpA step, similar to that of daunorubicin and nogalamycin. A close analogue was shown to be active against ras oncogene-expressed cells.

References

1. Molecular structure of antitumor drug steffimycin and modeling of its binding to DNA. Sriram M. et al. *J. Biomol. Struct. Dyn.* **1991**, 9, 251.
2. Screening of antibiotics preferentially active against ras oncogene-expressed cells. Suzukake-Tsuchiya K. et al. *J. Antibiot.* **1990**, 43, 1489.
3. Steffimycin B, a DNA binding agent. Reusser F. *Biochim. Biophys. Acta* **1975**, 383, 266.