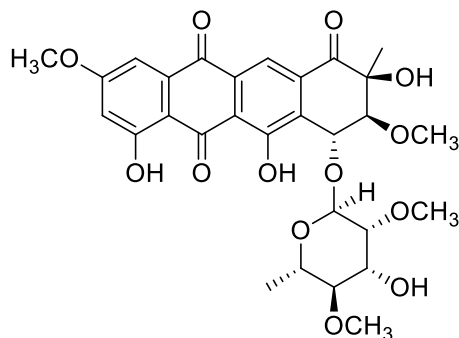


Steffimycin B

Code No.: **BIA-S1087**

Pack sizes: **1 mg, 5 mg**



Synonyms : U 40615

Specifications

CAS #	: 54526-94-2
Molecular Formula	: C ₂₉ H ₃₂ O ₁₃
Molecular Weight	: 588.6
Source	: <i>Streptomyces</i> sp.
Appearance	: Orange Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Steffimycin B is an anthracycline metabolite isolated from a *Streptomyces* sp. with antibacterial and antineoplastic properties. Crystallographic studies of binding to DNA 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.