

Product Name:	Steffimycin B
Product Number:	S102
CAS Number:	54526-94-2
Molecular Formula:	C ₂₉ H ₃₂ O ₁₃
Molecular Weight:	588.6
Appearance:	Orange Lyophilisate
Storage Conditions:	-20°C
Description:	<p>Steffimycin B is an anthracycline metabolite isolated from a <i>Streptomyces</i> 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.</p> <p>Steffimycin B is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>Molecular structure of antitumor drug steffimycin and modeling of its binding to DNA. Sriram M. et al. J. Biomol. Struct. Dyn. 1991, 9, 251.</p> <p>Screening of antibiotics preferentially active against ras oncogene-expressed cells. Suzukake-Tsuchiya K. et al. J. Antibiot. 1990, 43, 1489.</p> <p>Steffimycin B, a DNA binding agent. Reusser F. Biochim. Biophys. Acta 1975, 383, 266.</p>