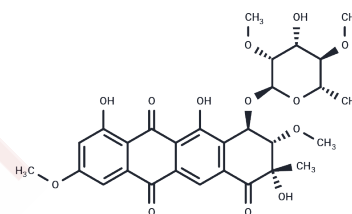


Steffimycin B

Chemical Properties

CAS No. :	54526-94-2
Formula:	C ₂₉ H ₃₂ O ₁₃
Molecular Weight:	588.56
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Steffimycin B is an anthracycline bacterial metabolite initially isolated from <i>Streptomyces</i> . It binds to DNA, preferentially intercalating at sites containing cytosine and guanine. Steffimycin B exhibits cytotoxicity against MCF-7, KB, NCI-H187, and Vero cells with IC ₅₀ values of 3.5, 6.75, 3.28, and 10.5 μM, respectively. It also shows activity against <i>Mycobacterium tuberculosis</i> * (MIC=5.2 nM), <i>Bacillus cereus</i> * (MIC=1.56 μg/mL), and <i>Plasmodium falciparum</i> * (IC ₅₀ =2.19 μM).
Targets(IC ₅₀)	Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6991 mL	8.4953 mL	16.9906 mL
5 mM	0.3398 mL	1.6991 mL	3.3981 mL
10 mM	0.1699 mL	0.8495 mL	1.6991 mL
50 mM	0.034 mL	0.1699 mL	0.3398 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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