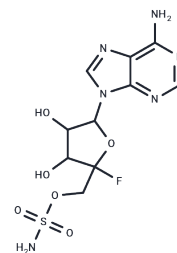


Nucleocidin

Chemical Properties

CAS No. :	24751-69-7
Formula:	C ₁₀ H ₁₃ FN ₆ O ₆ S
Molecular Weight:	364.31
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	Nucleocidin, an antitrypanosomal antibiotic, inhibits the transfer of labeled amino acids from S-RNA to protein.
Targets(IC50)	Antibacterial, NADPH
In vitro	Nucleocidin shows inhibition occurs at low concentrations, however, it is not possible to obtain complete inhibition at 10 ⁻³ M. Essentially complete inhibition is obtained at 10 ⁻³ M puromycin, and only at the lowest concentrations is any lag detectable. It seems that Nucleocidin exhibits the pattern typical of many antibiotics, i.e. it inhibits incorporation at a stage subsequent to the formation of aminoacyl-S-RNA. An appreciable lag occurs before any inhibition by Nucleocidin is detectable, and the length of this lag period varies inversely with the concentration of Nucleocidin. Similar results are obtained when Nucleocidin is added to the cell-free system from reticulocytes .

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7449 mL	13.7246 mL	27.4492 mL
5 mM	0.549 mL	2.7449 mL	5.4898 mL
10 mM	0.2745 mL	1.3725 mL	2.7449 mL
50 mM	0.0549 mL	0.2745 mL	0.549 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.

Reference

Florini JR, et al. Inhibition of protein synthesis in vitro and in vivo by nucleocidin, an antitrypanosomal antibiotic. J Biol Chem. 1966 Mar 10;241(5):1091-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481