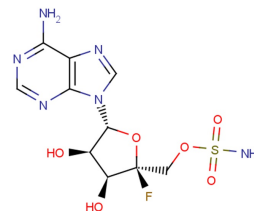


## Nucleocidin

## Chemical Properties

CAS No.:	24751-69-7
Formula:	C <sub>10</sub> H <sub>13</sub> FN <sub>6</sub> O <sub>6</sub> S
Molecular Weight:	364.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Nucleocidin is an antitrypanosomal antibiotic. Nucleocidin inhibiting the transfer of labeled amino acid from S-RNA to protein.
Targets(IC <sub>50</sub> )	Antibacterial: None
In vitro	Nucleocidin shows inhibition occurs at low concentrations, however, it is not possible to obtain complete inhibition at 10 <sup>-3</sup> M. Essentially complete inhibition is obtained at 10 <sup>-3</sup> 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.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.745 mL	13.725 mL	27.449 mL
5 mM	0.549 mL	2.745 mL	5.49 mL
10 mM	0.274 mL	1.372 mL	2.745 mL
50 mM	0.055 mL	0.274 mL	0.549 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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