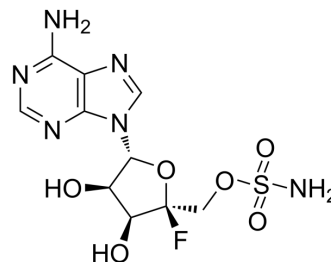


Nucleocidin

Cat. No.:	HY-100496
CAS No.:	24751-69-7
Molecular Formula:	C ₁₀ H ₁₃ N ₆ O ₆ S
Molecular Weight:	364.31
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nucleocidin is an antitrypanosomal antibiotic, inhibiting the transfer of labeled amino acid from S-RNA to protein.
IC₅₀ & Target	Antibacterial ^[1] .
In Vitro	<p>Although appreciable inhibition occurs at low concentrations of nucleocidin, it is not possible to obtain complete inhibition even at 10⁻³ M. 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. By contrast, 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^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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