
Product Data Sheet

Product Name: Nucleocidin

Cat. No.: GC33985

Chemical Properties

Cas. No. 24751-69-7

SMILES O[C@@H]([C@H]([C@H](N1C=NC2=C1N=CN=C2N)O3)O)[C@@]3(F)COS(=O)(N)=OFormula $C_{10}H_{13}FN_6O_6S$ M.Wt 364.31

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Nucleocidin is an antitrypanosomal antibiotic, inhibiting the transfer of labeled amino acid from S-RNA to protein.

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].

[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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