

Zanamivir

Catalog No: tcsc0631

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:

139110-80-8

Formula:

 $C_{12}H_{20}N_4O_7$

Pathway:

Anti-infection

Target:

Influenza Virus

Purity / Grade:

Solubility: H2O : ≥ 33.33 mg/mL (100.30 mM)

Observed Molecular Weight:

332.31

Product Description

Zanamivir is an influenza viral **neuraminidase** inhibitor with **IC**₅₀ values of 0.95 nM and 2.7 nM for influenza A and B, respectively.

IC50 & Target: IC50: 0.95 nM (Influenza A); 2.7 nM (Influenza B)^[1]

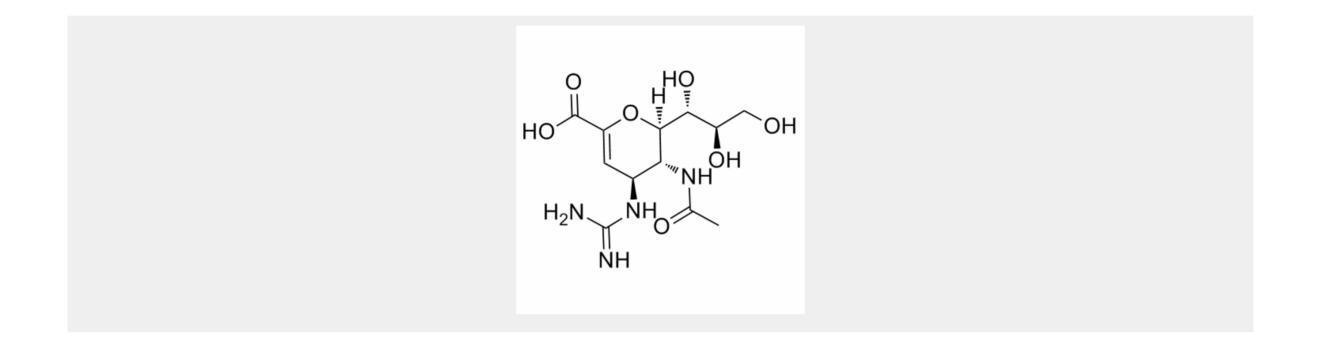
In Vitro:

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Zanamivir interacts with a group of amino acids in the active site of neuraminidase, which are conserved in all influenza A and B strains. Zanamivir blocks the action of neuraminidase, which prevents the cleavage of sialic acid on the cell receptors, thus preventing release and spread of the newly formed virions^[2].

In Vivo: Zanamivir has a poor bioavailability in oral administration, with only 4–17% of the agent. Oral delivery of zanamivir has been a problem due to its strong hydrophilic nature that limits its transport across the intestinal epithelium. Permeation enhancers such as sodium cholate, hydroxypropyl β -cyclodextrin could be used with zanamivir to enhance the intestinal permeability^[3].



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