

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:

>98%

Solubility:

H₂O : ≥ 33.33 mg/mL (100.30 mM)

Observed Molecular Weight:

332.31

Product Description

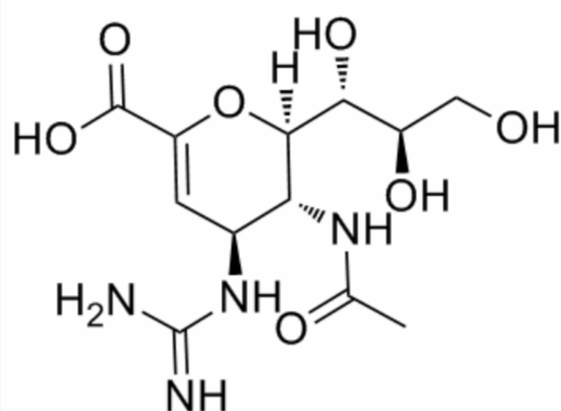
Zanamivir is an influenza viral **neuraminidase** inhibitor with **IC₅₀** values of 0.95 nM and 2.7 nM for influenza A and B, respectively.

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

In Vitro:

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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!