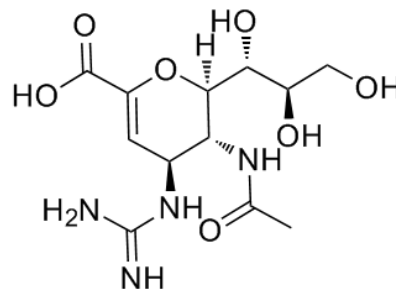


Product Name : Zanamivir
Cat. No. : PC-43395
CAS No. : 139110-80-8
Molecular Formula : C₁₂H₂₀N₄O₇
Molecular Weight : 332.3098
Target : Influenza Virus
Solubility : H₂O: ≥ 33.33 mg/mL



Biological Activity

Zanamivir is a highly potent, broad-spectrum influenza viral **neuraminidase (NA)** inhibitor with IC₅₀ of 0.95 nM and 2.7 nM for influenza A and B, respectively.

Zanamivir inhibits plaque formation by laboratory-passaged strains of influenza A and B viruses, IC₅₀ ranging from 0.005 to 0.014 μM.

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.

References

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 McKimm-Breschkin JL, et al. *Treat Respir Med.* 2005;4(2):107-16.
 Ryan DM, et al. *Antimicrob Agents Chemother.* 1994 Oct;38(10):2270-5.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com