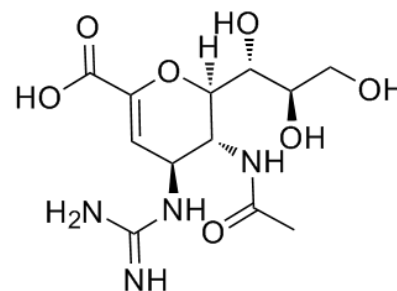


**Product Name** : Zanamivir  
**Cat. No.** : PC-43395  
**CAS No.** : 139110-80-8  
**Molecular Formula** : C<sub>12</sub>H<sub>20</sub>N<sub>4</sub>O<sub>7</sub>  
**Molecular Weight** : 332.3098  
**Target** : Influenza Virus  
**Solubility** : H<sub>2</sub>O: ≥ 33.33 mg/mL



### Biological Activity

Zanamivir is a highly potent, broad-spectrum influenza viral neuraminidase (NA) inhibitor with IC<sub>50</sub> of 0.95 nM and 2.7 nM for influenza A and B, respectively; inhibits plaque formation by laboratory-passaged strains of influenza A and B viruses, IC<sub>50</sub> ranging from 0.005 to 0.014 μM; 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.

Influenza  
Approved

### 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!**

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