

Product Name	: Zanamivir
Synonyms	: GG 167; GR 121167X; Relenza
Cat No.	: M11621
CAS Number	: 139110-80-8
Molecular Formula	: C ₁₂ H ₂₀ N ₄ O ₇
Formula Weight	: 332.31
Chemical Name	: D-glycero-D-galacto-Non-2-enonic acid, 5-(acetlamino)-4-[(aminoiminomethyl)amino]-2,6-anhydro-3,4,5-trideoxy-
Description	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; inhibits plaque formation by laboratory-passaged strains of influenza A and B viruses, IC₅₀ ranging from 0.005 to 0.014 uM; 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
Pathway	: Microbiology/Virology
Target	: Influenza Virus
Receptor	: InfluenzaA; InfluenzaB
Solubility	: H ₂ O: ≥ 33.33 mg/mL
SMILES	: <chem>CC(=O)N[C@@H]1[C@H](C=C(O[C@H]1[C@@H]([C@@H](CO)O)O)C(=O)O)N=C(N)N</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Woods JM, et al. Antimicrob Agents Chemother. 1993 Jul;37(7):1473-9. | 2. Gubareva LV, et al. Antimicrob Agents Chemother. 2001 Dec;45(12):3403-8. | 3. McKimm-Breschkin JL, et al. Treat Respir Med. 2005;4(2):107-16. | 4. Ryan DM, et al. Antimicrob Agents Chemother. 1994 Oct;38(10):2270-5.

