

Product Name: Zanamivir

Catalog No.: 7187

Batch No.: 1

CAS Number: 139110-80-8

IUPAC Name: 5-(Acetylamino)-4-[(aminoiminomethyl)amino]-2,6-anhydro-3,4,5-trideoxy-5-(Acetylamino)-4-[(aminoiminomethyl)amino]-2,6-anhydro-3,4,5-trideoxy-D-glycero-D-galactonon-2-enonic acid-glycero-D-galactonon-2-enonic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₂₀N₄O₇ · 1½H₂O

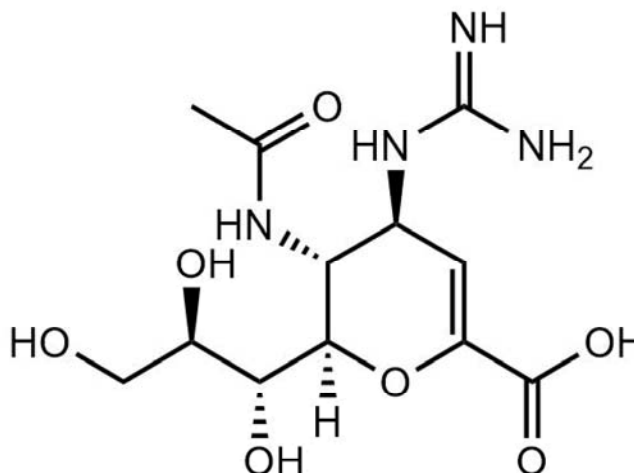
Batch Molecular Weight: 359.33

Physical Appearance: White solid

Solubility: water to 5 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +34.6 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	40.11	6.45	15.59
Found	39.7	6.52	15.54

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Description:

Influenza viral neuraminidase inhibitor (IC₅₀ values are 0.95 nM and 2.7 nM for influenza A and B, respectively). Inhibits neuraminidase, preventing the cleavage of sialic acid on the cell receptors, and release of the newly formed virions.

Physical and Chemical Properties:

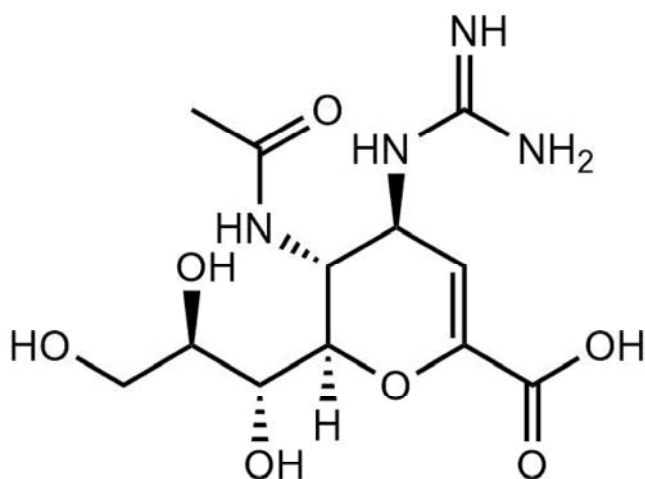
Batch Molecular Formula: C₁₂H₂₀N₄O₇·1½H₂O

Batch Molecular Weight: 359.33

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 5 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hall *et al* (2020) A search for medications to treat COVID-19 via in silico molecular docking models of the SARS-CoV-2 spike glycoprotein and 3CL protease *Travel Med.Infect.Dis.* **35** 101646.. PMID: 32294562.

McKimm-Breschkin *et al* (2005) Management of influenza virus infections with neuraminidase inhibitors: detection, incidence, and implications of drug resistance. *Treat Respir.Med.* **4** 107. PMID: 15813662.

Elliott *et al* (2001) Zanamivir: from drug design to the clinic. *Philos.Trans.R.Soc.Lond.B.Biol.Sci.* **356** 1885. PMID: 11779388.

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