

**Product Name:** Oseltamivir phosphate

**Catalog No.:** 7224

**Batch No.:** 1

CAS Number: 204255-11-8

IUPAC Name: Ethyl (3*R*,4*R*,5*S*)-4-Acetamido-5-amino-3-(pentan-3-yloxy)cyclohex-1-ene-1-carboxylate phosphate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>.H<sub>3</sub>PO<sub>4</sub>

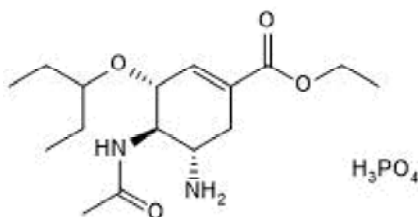
**Batch Molecular Weight:** 410.4

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM  
water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -32.5 (Concentration = 0.7, Solvent = Water)

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen			
	Theoretical	46.83	7.61	6.83
	Found	46.51	7.63	6.76

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**Description:**

Viral neuraminidase inhibitor prodrug; metabolized to GS 4071. Metabolite exhibits potent inhibition of neuraminidase from multiple influenza strains (IC<sub>50</sub> values range from 0.3 to 2 nM). Inhibits cellular effects of influenza infection in vitro (IC<sub>50</sub> values range from 0.6 to 150 nM). Displays highest potency against H1N1 and H3N2 influenza A strains. Inhibits H1N1 influenza infection in mice.

**Physical and Chemical Properties:**

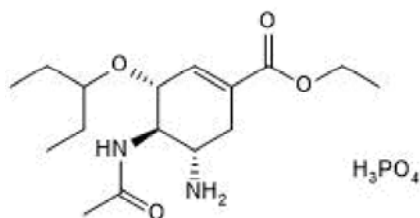
Batch Molecular Formula: C<sub>16</sub>H<sub>28</sub>N<sub>2</sub>O<sub>4</sub>.H<sub>3</sub>PO<sub>4</sub>

Batch Molecular Weight: 410.4

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

water to 100 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:**

**Mendel et al (1998)** Oral administration of a prodrug of the influenza virus neuraminidase inhibitor GS 4071 protects mice and ferrets against influenza infection. *Antimicrob. Agents Chemother.* **42** 640. PMID: 9517945.

**Kim et al (1997)** Influenza neuraminidase inhibitors possessing a novel hydrophobic interaction in the enzyme active site: design, synthesis, and structural analysis of carbocyclic sialic acid analogues with potent anti-influenza activity. *J. Am. Chem. Soc.* **119** 681. PMID: 16526129.

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