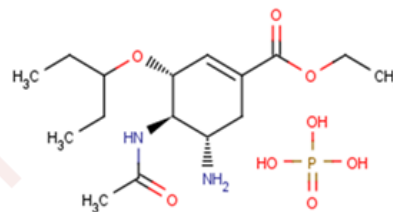


Oseltamivir phosphate

Chemical Properties

CAS No. :	204255-11-8
Formula:	C ₁₆ H ₂₈ N ₂ O ₄ ·H ₃ PO ₄
Molecular Weight:	410.4
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Oseltamivir phosphate (GS 4104) is the phosphate salt of oseltamivir, a synthetic derivative prodrug of ethyl ester with antiviral activity. By blocking neuraminidases on the surfaces of influenza viruses, oseltamivir interferes with host cell release of complete viral particles.
Targets(IC50)	Influenza Virus
In vitro	Oseltamivir Phosphate, anti-Neu1 antibodies, and matrix metalloproteinase-9-specific inhibitor blocks Neu1 activity associated with EGF-stimulated TNBC MDA-MB-231 cells[2]. Oseltamivir slows the spread of influenza (flu) virus between cells in the body by stopping the virus from chemically cutting ties with its host cell.
In vivo	Oseltamivir Phosphate monotherapy may be the effective treatment therapy for TNBC(Triple-negative breast cancers)[2]. It is efficacious in treating infections caused by H5N1 and H9N2 influenza viruses in mice[3]. After dosing, the prodrug (Oseltamivir phosphate) is readily absorbed from the gastrointestinal tract and rapidly converted into the active metabolite, OC. In all patient groups, OC has high bioavailability and is systemically distributed to infection sites at concentrations sufficient to inhibit a range of influenza virus neuraminidases[4].
Cell Research	Cells are incubated in 96-well plates (5,000 cells/well) and allowed to adhere for 24 hours in 1× DMEM media containing 10% FCS. The media are replaced with fresh DMEM media containing 5% FCS with or without various concentrations of tamoxifen or OP for indicated time periods. Cell viability is tested using WST-1 cell proliferation assay.(Only for Reference)

Solubility Information

Solubility	DMSO: 10 mg/mL (24.37 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4366 mL	12.1832 mL	24.3665 mL
5 mM	0.4873 mL	2.4366 mL	4.8733 mL
10 mM	0.2437 mL	1.2183 mL	2.4366 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Li W, et al. Antimicrob Agents Chemother. 1998, 42(3):647-53.

WEI X U, Shuai X, Jing P, et al. The antihistamine drugs carbinoxamine maleate and chlorpheniramine maleate

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481