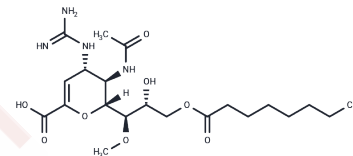


Laninamivir octanoate

Chemical Properties

CAS No. :	203120-46-1
Formula:	C ₂₁ H ₃₆ N ₄ O ₈
Molecular Weight:	472.53
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Laninamivir octanoate (CS-8958) is a long acting influenza neuraminidase (NA) inhibitor which shows superior anti-influenza virus activity.
Targets(IC50)	Influenza Virus
In vitro	CS-8958 shows inhibitory activity with an IC50 of 631-1170 nM, 39.2-221 nM and 128 nM to the H1N1 viruses strains, H3N2 viruses strains and H2N2 (A/Singapore/1/57) virus, respectively[1].
In vivo	CS-8958(95 µg/kg; intranasal administration; three dose; at 4 h before and 4 h and 17 h postinfection) treatment shows significantly life-prolonging effect in infected model [1].

Solubility Information

Solubility	DMSO: 100 mg/mL (211.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1163 mL	10.5813 mL	21.1627 mL
5 mM	0.4233 mL	2.1163 mL	4.2325 mL
10 mM	0.2116 mL	1.0581 mL	2.1163 mL
50 mM	0.0423 mL	0.2116 mL	0.4233 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yamashita M . CS-8958, a Prodrug of the New Neuraminidase Inhibitor R-125489, Shows Long-Acting Anti-Influenza Virus Activity[J]. Antimicrobial Agents & Chemotherapy, 2009, 53.

Hideyuki Ikematsu, et al. Laninamivir octanoate: a new long-acting neuraminidase inhibitor for the treatment of influenza. Expert Rev Anti Infect Ther. 2011 Oct;9(10):851-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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