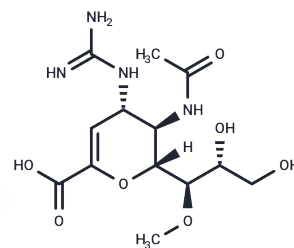


Laninamivir

Chemical Properties

CAS No. :	203120-17-6
Formula:	C ₁₃ H ₂₂ N ₄ O ₇
Molecular Weight:	346.34
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 (R 125489) is an effective inhibitor of influenza neuraminidase (NA) (IC ₅₀ s: 0.90 nM, 1.83 nM, and 3.12 nM for avian H12N5 NA (N5), pH1N1 N1 NA (p09N1) and A/RI/5+/1957 H2N2 N2 (p57N2), respectively).
Targets(IC ₅₀)	Influenza Virus
In vitro	Laninamivir is effective against p57N2, p09N1, and N5 with a similar binding mode to Zanamivir. Laninamivir inhibits efficiently common oseltamivir-resistant viruses, including those with the ubiquitous His274Tyr substitution [1].

Solubility Information

Solubility	DMSO: Insoluble, H ₂ O: 10 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	2.8873 mL	14.4367 mL	28.8734 mL
5 mM	0.5775 mL	2.8873 mL	5.7747 mL
10 mM	0.2887 mL	1.4437 mL	2.8873 mL
50 mM	0.0577 mL	0.2887 mL	0.5775 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

Vavricka CJ, et al. Structural and functional analysis of laninamivir and its octanoate prodrug reveals group specific mechanisms for influenza NA inhibition. PLoS Pathog. 2011 Oct;7(10):e1002249.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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