

Product Data Sheet

Product Name: Laninamivir

Cat. No.: GC65069

Chemical Properties

Cas. No. 203120-17-6

Formula C₁₃H₂₂N₄O₇ M.Wt 346.34

Solubility Water : 5 mg/mL (14.44 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

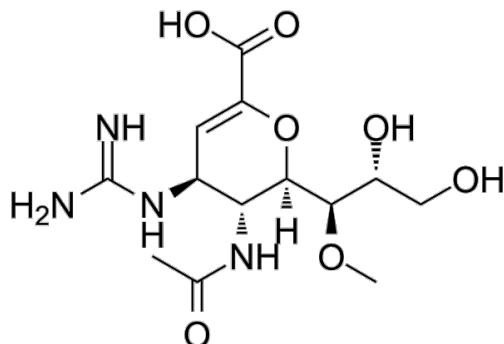
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Laninamivir (R 125489) is a potent influenza neuraminidase (NA) inhibitor with IC₅₀s of 0.90 nM, 1.83 nM and 3.12 nM for avian H12N5 NA (N5), pH1N1 N1 NA (p09N1) and A/R1/5+/1957 H2N2 N2 (p57N2), respectively[1].

Laninamivir (R 125489) inhibits efficiently common oseltamivir-resistant viruses, including those with the ubiquitous His274Tyr substitution[1]. Laninamivir (R 125489) is potent against p57N2, p09N1 and N5 with a similar binding mode to Zanamivir[1].

[1]. 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.

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