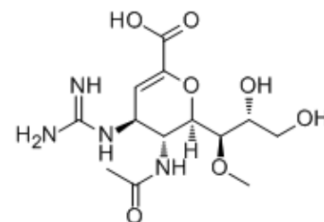


## Laninamivir

Cat. No.:	HY-14818
CAS No.:	203120-17-6
Molecular Formula:	C <sub>13</sub> H <sub>22</sub> N <sub>4</sub> O <sub>7</sub>
Molecular Weight:	346.34
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

Description	Laninamivir (R 125489) is a potent influenza <b>neuraminidase (NA)</b> inhibitor with IC <sub>50</sub> s of 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 <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.90 nM (N5), 1.83 nM (p09N1), 3.12 nM (p57N2) <sup>[1]</sup>
In Vitro	Laninamivir inhibits efficiently common oseltamivir-resistant viruses, including those with the ubiquitous His274Tyr substitution <sup>[1]</sup> . Laninamivir is potent against p57N2, p09N1 and N5 with a similar binding mode to Zanamivir <sup>[1]</sup> .

### REFERENCES

[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.

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

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