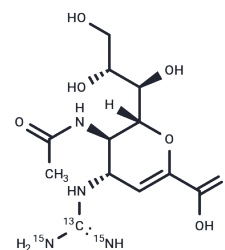


## Zanamivir-13C,15N2

## Chemical Properties

CAS No. :	1276528-62-1
Formula:	C <sub>12</sub> H <sub>20</sub> N <sub>4</sub> O <sub>7</sub>
Molecular Weight:	335.292
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	Zanamivir-13C,15N2 is intended for use as an internal standard for the quantification of zanamivir by GC- or LC-MS. Zanamivir (T2529) is a sialic acid analog that inhibits neuraminidase release of newly replicated influenza virus particles. It has been shown to selectively inhibit the growth of influenza A and B viruses in plaque reduction assays with IC <sub>50</sub> values ranging from 5 to 14 nM and to directly inhibit influenza A and B virus neuraminidases with IC <sub>50</sub> values ranging from 0.6 to 7.9 nM in vitro. Intranasal zanamivir administration at 0.4 mg/kg twice daily reduces mortality and viral titers in lung homogenates of mice infected with influenza.
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## Solubility Information

Solubility	H <sub>2</sub> O: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9825 mL	14.9125 mL	29.8249 mL
5 mM	0.5965 mL	2.9825 mL	5.965 mL
10 mM	0.2982 mL	1.4912 mL	2.9825 mL
50 mM	0.0596 mL	0.2982 mL	0.5965 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

Elliott, M. Zanamivir: From drug design to the clinic *Philos. Trans. R. Soc. Lond. B Biol Sci.* 356(1416)1885-1893(2001)

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