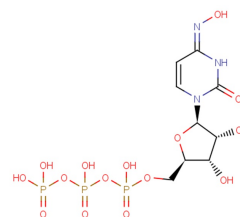


## NHC-triphosphate

## Chemical Properties

CAS No.:	34973-27-8
Formula:	C <sub>9</sub> H <sub>16</sub> N <sub>3</sub> O <sub>15</sub> P <sub>3</sub>
Molecular Weight:	499.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	NHC-triphosphate is a weak alternative substrate for the viral polymerase and changes the mobility of the product in polyacrylamide electrophoresis gels.
Targets(IC <sub>50</sub> )	alternative substrate for the viral polymerase: None
In vitro	In cell-free HCV NS5B assays, synthetic NHC-triphosphate (NHC-TP) did not inhibit the polymerization reaction. Instead, NHC-TP appeared to serve as a weak alternative substrate for the viral polymerase, thereby changing the mobility of the product in polyacrylamide electrophoresis gels. Speculate that incorporated nucleoside analogues with the capacity of changing the thermodynamics of regulatory secondary structures (with or without introducing mutations) may represent an important class of new antiviral agents for the treatment of RNA virus infections, especially HCV.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.003 mL	10.017 mL	20.034 mL
5 mM	0.401 mL	2.003 mL	4.007 mL
10 mM	0.2 mL	1.002 mL	2.003 mL
50 mM	0.04 mL	0.2 mL	0.401 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Stuyver LJ, et al. Ribonucleoside analogue that blocks replication of bovine viral diarrhea and hepatitis C viruses in culture. *Antimicrob Agents Chemother.* 2003 Jan;47(1):244-54.

Inhibitors · Natural Compounds · Compound Libraries

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