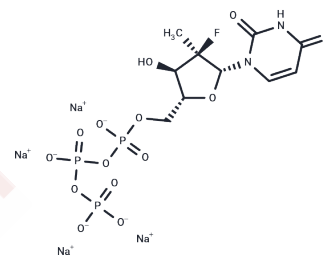


## PSI-7409 tetrasodium

## Chemical Properties

CAS No. :	1621884-22-7
Formula:	C <sub>10</sub> H <sub>12</sub> FN <sub>2</sub> Na <sub>4</sub> O <sub>14</sub> P <sub>3</sub>
Molecular Weight:	588.09
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	PSI-7409 tetrasodium is the pharmacologically active 5'-triphosphate metabolite of sofosbuvir (PSI-7977) that directly inhibits hepatitis C virus NS5B RNA-dependent RNA polymerase, with IC <sub>50</sub> values of 1.6, 2.8, 0.7, and 2.6 μM against GT 1b_Con1, GT 2a_JFH1, GT 3a, and GT 4a NS5B polymerases, respectively, PSI-7409 tetrasodium is widely used to study antiviral mechanisms and genotype-specific polymerase inhibition.
Targets(IC <sub>50</sub> )	HCV Protease
In vitro	In enzymatic assays, PSI-7409 tetrasodium inhibited HCV NS5B polymerase with IC <sub>50</sub> values ranging from 0.7 to 2.8 μM across various genotypes [1].

## Solubility Information

Solubility	H <sub>2</sub> O: 80 mg/mL (136.03 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	1.7004 mL	8.5021 mL	17.0042 mL
5 mM	0.3401 mL	1.7004 mL	3.4008 mL
10 mM	0.170 mL	0.8502 mL	1.7004 mL
50 mM	0.034 mL	0.170 mL	0.3401 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

Lam AM, et al. PSI-7851, a pronucleotide of beta-D-2'-deoxy-2'-fluoro-2'-C-methyluridine monophosphate, is a potent and pan-genotype inhibitor of hepatitis C virus replication. *Antimicrob Agents Chemother.* 2010 Aug;54(8):3187-96.

Murakami E, et al. Mechanism of activation of PSI-7851 and its diastereoisomer PSI-7977. *J Biol Chem.* 2010 Nov 5;285(45):34337-47.

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