

# PSI-7409 tetrasodium

Catalog No: tcsc0022156



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg



## Specifications

**CAS No:**

1621884-22-7

**Formula:**

$C_{10}H_{16}FN_2Na_4O_{14}P_3$

**Pathway:**

Anti-infection

**Target:**

HCV

**Purity / Grade:**

>98%

**Solubility:**

H<sub>2</sub>O : ≥ 125 mg/mL (211.11 mM)

**Observed Molecular Weight:**

592.12

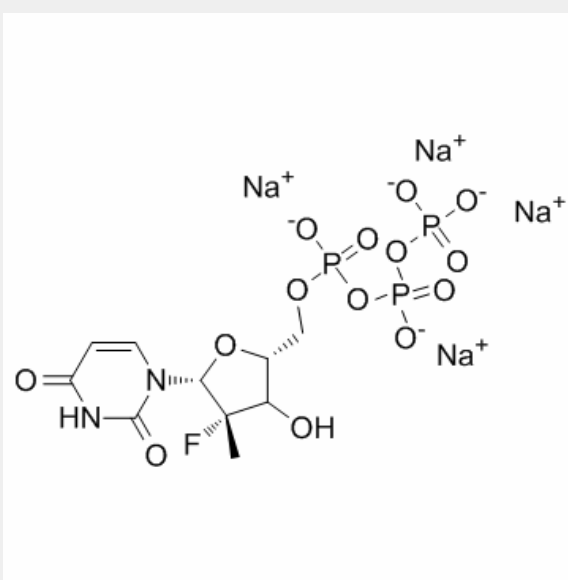
## Product Description

PSI-7409 tetrasodium is an active 5\'-triphosphate metabolite of sofosbuvir (PSI-7977), inhibiting **HCV NS5B polymerases**, with **IC<sub>50</sub>**

s of 1.6, 2.8, 0.7 and 2.6  $\mu\text{M}$  for GT 1b\_Con1, GT 2a\_JFH1, GT 3a, and GT 4a NS5B polymerases, respectively.

IC<sub>50</sub> & Target: IC<sub>50</sub>: 1.6  $\mu\text{M}$  (GT 1b\_Con1), 2.8  $\mu\text{M}$  (GT 2a\_JFH1), 0.7  $\mu\text{M}$  (GT 3a), 2.6  $\mu\text{M}$  (GT 4a)<sup>[1]</sup>

**In Vitro:** PSI-7409 tetrasodium is an active 5'-triphosphate metabolite, inhibiting HCV NS5B polymerases, with IC<sub>50</sub>s of 1.6, 2.8, 0.7 and 2.6  $\mu\text{M}$  for GT 1b\_Con1, GT 2a\_JFH1, GT 3a, and GT 4a NS5B polymerases, respectively. PSI-7409 also weakly inhibits human DNA polymerase  $\alpha$ , with an IC<sub>50</sub> of 550  $\mu\text{M}$ , but shows no inhibition on DNA Pol  $\beta$  and  $\gamma$ <sup>[1]</sup>. In clone A cells, the levels of PSI-7409 gradually increases to a maximum concentration of about 25  $\mu\text{M}$  over a period of 48 h. PSI-7409 forms at a much faster rate in primary human hepatocytes, achieving a maximum intracellular concentration of  $\sim 100 \mu\text{M}$  at 4 h and remains at that concentration for 48 h<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!