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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:
H2O : ≥ 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 50**

s of 1.6, 2.8, 0.7 and 2.6 μM for GT 1b_Con1, GT 2a_JFH1, GT 3a, and GT 4a NS5B polymerases, respectively.

IC50 & Target: IC50: 1.6 μM (GT 1b_Con1), 2.8 μM (GT 2a_JFH1), 0.7 μM (GT 3a), 2.6 μM (GT 4a)[1]

In Vitro: PSI-7409 tetrasodium is an active 5\'-triphosphate metabolite, inhibiting HCV NS5B polymerases, with IC_{50}s of 1.6, 2.8, 0.7 and 2.6 μM for GT 1b_Con1, GT 2a_JFH1, GT 3a, and GT 4a NS5B polymerases, respectively. PSI-7409 also weakly inhibits human DNA polymerase α, with an IC_{50} of 550 μM, but shows no inhibition on DNA Pol β and γ[1]. In clone A cells, the levels of PSI-7409 gradually increases to a maximum concentration of about 25 μM over a period of 48 h. PSI-7409 forms at a much faster rate in primary human hepatocytes, achieving a maximum intracellular concentration of ~100 μM at 4 h and remains at that concentration for 48 h[2].