

Product Data Sheet

Product Name: PSI-7977-¹³C-d₃

Cat. No.: GC48006

Chemical Properties

Cas. No. 2070009-25-3

SMILES O=C(NC(C=C1)=O)N1[C@H]2[C@@](F)([13C]([2H])([2H])[2H])[C@H](O)[C@@H](CO[P@@](N[C@@H](C)C(OC(C)C)=O)(OC3=CC=CC=C3)=O)O2

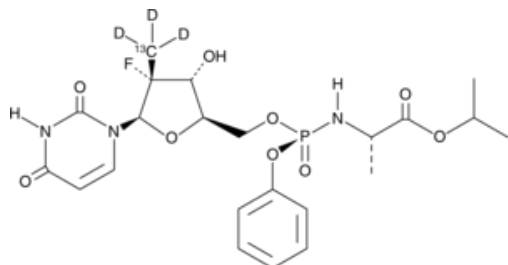
Formula C₂₁[¹³C]H₂₆D₃FN₃O₉P M.Wt 533.5

Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 25 mg/ml, PBS (pH 7.2): 0.2 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

PSI-7977-¹³C-d₃ is intended for use as an internal standard for the quantification of PSI-7977 by GC- or LC-MS. PSI-7977 is a phosphoramidate prodrug of PSI-7851, a nucleoside analog that, when phosphorylated, inhibits the RNA-dependent RNA polymerase of hepatitis C virus (EC₅₀ = 92 nM).^{1,2,3} PSI-7977 is effective *in vitro* and *in vivo*.^{2,4,5}

1. Murakami, E., Tolstykh, T., Bao, H., et al. Mechanism of activation of PSI-7851 and its diastereoisomer PSI-7977J. *Biol. Chem.* 285(45):34337-34347 (2010) 2. Sofia, M.J., Bao, D., Chang, W., et al. Discovery of a β-D-2'-deoxy-2'-α-fluoro-2'-β-C-methyluridine nucleotide prodrug (PSI-7977)

Caution: Product has not been fully validated for medical applications. For research use only.

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for the treatment of hepatitis C virusJ. Med. Chem.53(19)7202-7218(2010) 3.Lam, A.M., Espiritu, C., Bansal, S., et al.Genotype and subtype profiling of PSI-7977 as a nucleotide inhibitor of hepatitis C virusAntimicrob. Agents Chemother.56(6)3359-3368(2012) 4.Gane, E.J., Stedman, C.A., Hyland, R.H., et al.Nucleotide polymerase inhibitor sofosbuvir plus ribavirin for hepatitis CN. Engl. J. Med.368(1)34-44(2013) 5.Lawitz, E., Mangia, A., Wyles, D., et al.Sofosbuvir for previously untreated chronic hepatitis C infectionN. Engl. J. Med.368(20)1878-1887(2013)

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