Product Specification Sheet

Product Name: PSI-6206 (RO2433)
Catalog Number: C7620

Technical information:
- Chemical Formula: C_{10}H_{13}FN_{2}O_{5}
- CAS #: 863329-66-2
- Molecular Weight: 260.22
- Purity: > 98%
- Appearance: Clear Crystal solid
- Solubility: Soluble in DMSO up to 100 mM
- Chemical Name: (2'R)-2'-Deoxy-2'-fluoro-2'-methyluridine
- Storage: Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.
- Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:
- To make 10 mM stock solution, add 0.384mL of DMSO for each mg of PSI-6206 (RO2433).
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity:
PSI-6206 (RO2433) is the unphosphorylated parent compound of triphosphate analog PSI-7409, which is a potent inhibitor of the HCV NS5B RNA dependent RNA polymerase. The monophosphate form of PSI-6206 was shown to be metabolized in primary human hepatocytes to its triphosphate analog PSI-7409. Furthermore, the phosphoramidate prodrug of PSI-6206 monophosphate, PSI-7851, was developed. Alternatively, PSI-6130, an amino analog of PSI-6206 monophosphate, was also developed. (1,2,3)

PSI-7409, the triphosphate of PSI-6206 inhibits wild-type and S282T HCV RdRp with Ki values of 0.42 and 22 uM, respectively. PSI-7851, the phosphoramidate of PSI-6206 monophosphate, showed an EC50 value of 1.62 uM for inhibiting HCV RNA replication. (2)

Reference:


3. Ma et al., Characterization of the Metabolic Activation of Hepatitis C Virus Nucleoside Inhibitor b-D-2'-Deoxy-2'-fluoro-2'-C-methylcytidine (PSI-6130) and Identification of a Novel Active 5'-Triphosphate Species. J. Biol. Chem. 2007, 282, 29812-29820. Pubmed ID: 17698842

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