PRODUCT INFORMATION



PSI-6130

Item No. 13575

| CAS Registry No.: Formal Name: | 817204-33-4 (2'R)-2'-deoxy-2'-fluoro-2'- methyl-cytidine | г ↓ ОН |
|--|--|------------------|
| MF: | $C_{10}H_{14}FN_3O_4$ | |
| FW: | 259.2 | HO, , OH |
| Purity: | ≥98% | |
| UV/Vis.: | λ _{max} : 273 nm | |
| Supplied as: | A crystalline solid | H ₂ N |
| Storage: | -20°C | |
| Stability: | ≥4 years | |
| Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis. | | |

Laboratory Procedures

PSI-6130 is supplied as a crystalline solid. A stock solution may be made by dissolving the PSI-6130 in the solvent of choice, which should be purged with an inert gas. PSI-6130 is soluble in the organic solvent DMSO at a concentration of approximately 50 mg/ml.

Description

PSI-6130 is a nucleoside inhibitor of the NS5B RNA polymerase of hepatitis C virus (HCV; $K_i = 4.3 \ \mu M$).¹ It inhibits HCV genotype 1b (GT-1b) Con1 and GT-1a H77 viral replication in Huh7 replicon cells using a luciferase-based assay (EC₅₀s = 0.51 and 0.30 μ M, respectively). PSI-6130 also inhibits replication of HCV GT-1b and GT-1a replicons from clinical isolates, with EC₅₀ values ranging from 0.60 to 1.41 μ M, and 0.20 to 0.43 μ M, respectively, in the same assay. It has little or no activity against West Nile Virus (WNV), Dengue type 2 virus (DV), human immunodeficiency virus (HIV), or hepatitis B virus (HBV; $EC_{90}s = 46.3$, >100, >100, and >10 μ M, respectively).²

References

- 1. Murakami, E., Bao, H., Ramesh, M., et al. Mechanism of activation of β-D-2'-deoxy-2'-fluoro-2'-Cmethylcytidine and inhibition of hepatitis C virus NS5B RNA polymerase. Antimicrob. Agents Chemother. 51(2), 503-509 (2007).
- 2. Stuyver, L.J., McBrayer, T.R., Tharnish, P.M., et al. Inhibition of hepatitis C replicon RNA synthesis by β-D-2'-deoxy-2'-fluoro-2'-C-methylcytidine: A specific inhibitor of hepatitis C virus replication. Antivir. Chem. Chemother. 17(2), 79-87 (2006).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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