Overview

Product name: Lamivudine, nucleoside analog reverse transcriptase inhibitor

Description: Potent nucleoside analog reverse transcriptase inhibitor

Biological description: Potent nucleoside analog reverse transcriptase inhibitor (IC\textsubscript{50} = 2 μM). Inhibits both HIV1 and HIV2 reverse transcriptase. Orally active. Anti-HIV agent. Active \textit{in vivo} and \textit{in vitro}.

Purity: > 99%

CAS Number: 134678-17-4

Chemical structure: [Chemical structure image]

Properties

Chemical name: 4-Amino-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2-one

Molecular weight: 229.26

Molecular formula: C\textsubscript{8}H\textsubscript{11}N\textsubscript{3}O\textsubscript{3}S

PubChem identifier: 60825

Storage instructions: Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in water to 100 mM and in DMSO to 100 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: N1=C(C=CN(C1=O)[C@H]2O[C@H](SC2)CO)N

Source: Synthetic
Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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