**Product name**  
Emtricitabine, reverse transcriptase inhibitor

**Description**  
Competitive reverse transcriptase inhibitor. Nucleoside analog.

**Biological description**  
Competitive reverse transcriptase inhibitor. Nucleoside analog. Shows antiviral effects against HIV and HBV *in vivo* (*IC*$_{50}$ values are 7 - 75 nM for HIV-1). Structurally related to Lamivudine (ab143062). Orally active. Blood-brain barrier permeable.

**CAS Number**  
143491-57-0

**Chemical name**  
4-Amino-5-fluo ro-1-[(2<sup>R</sup>,5<sup>S</sup>)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2-one

**Molecular weight**  
247.25

**Molecular formula**  
C$_8$H$_{10}$FN$_3$O$_3$S

**PubChem identifier**  
60877

**Storage instructions**  
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in water to 100 mM, in ethanol to 50 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**  
C1(C@H)[O][C@H](S1)CO)N2C=C(C(=NC2=O)N)F

**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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