



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	Emtricitabine [(-) FTC]
<b>Catalog Number:</b>	10071
<b>Lot Number:</b>	040155
<b>Release Category:</b>	A
<b>Provided:</b>	20 mg
<b>Chemical Name:</b>	5-fluoro-1-(2R,5S)-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl] cytosine
<b>Empirical Formula:</b>	C <sub>8</sub> H <sub>10</sub> FN <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	247.2
<b>CAS Num:</b>	143491-57-0
<b>Solubility:</b>	Solubility in water is about 112 mg/ml at 25°C.
<b>Mechanical Action:</b>	Emtricitabine, a nucleoside analogue of cytidine, is phosphorylated by cellular enzymes to form emtricitabine 5'-triphosphate. Emtricitabine 5'-triphosphate inhibits the activity of HIV-1 reverse transcriptase by competing with the natural substrate deoxycytidine 5'-triphosphate and by being incorporated into nascent viral DNA which results in chain termination.
<b>Recommended Storage:</b>	Room Temperature. Can be stored at -20°C upon reconstitution.
<b>Contributor:</b>	Division of AIDS, NIAID.

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ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Emtricitabine [(-) FTC]."

**This compound is restricted for "research purposes only" and is limited to 40 mg per requester per year. Not available for release to commercial organizations outside of the USA.**

**Recipient agrees that the reagent (Emtricitabine [(-) FTC]) use is permitted only as a standard for in vitro and/or studies in animals for inhibition of HIV replication.**

**Last Updated**

July 24, 2018

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