



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Emtricitabine
Catalog Number:	10071
Lot Number:	040155
Release Category:	A
Provided:	20 mg
Chemical Name:	5-fluoro-1-(2R,5S)-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl] cytosine
Empirical Formula:	C ₈ H ₁₀ FN ₃ O ₃ S
Molecular Weight:	247.2
CAS Num:	143491-57-0
Solubility:	Solubility in water is about 112 mg/ml at 25°C.
Mechanical Action:	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.
Recommended Storage:	Room Temperature. Can be stored at -20°C upon reconstitution.
Contributor:	Division of AIDS, NIAID.

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."

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

November 05, 2019

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