

NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Lamivudine (3TC)
Catalog Number:	8146
Lot Number:	NB34-2-1
Release Category:	A
Provided:	20 mg
Chemical Name:	(2R, <i>cis</i>)-4-amino-1-(2-hydroxymethyl-1,3-oxathiolan-5yl)- (1H)-pyrimidin-2-one. Also referred to as (-)2',3'-dideoxy, 3'-thiacytidine or 2(1H)-Pyrimidinone,4-amino-1-[(2R,5S)-2-(hydroxymethyl)-1,3-oxathiolan-5-yl]-
Empirical Formula:	C ₈ H ₁₁ N ₃ O ₃ S
HPLC Purity:	>99%
Molecular Weight:	229.3
CAS Num:	134678-17-4
Solubility:	Soluble in methanol and water. Insoluble in ether.
Mechanical Action:	Lamivudine is a nucleoside analogue. Intracellularly, lamivudine is phosphorylated to the active 5'-triphosphate metabolite, lamivudine triphosphate. Lamivudine triphosphate inhibits the activity of HIV-1 reverse transcriptase by DNA chain termination after incorporation of the nucleoside analogue into viral DNA.

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.

Special Characteristics:	<u>SDS</u>
Recommended Storage:	Room temperature. Once resuspended, working aliquots can be stored at -20° C.
Contributor:	NIAID, DIADS
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Lamivudine from NIAID, DAIDS (cat# 8146)."
	Recipient agrees that the reagent (Lamivudine (3TC)) use is permitted only as a standard for in vitro and/or studies in animals for inhibition of HIV replication.
Last Updated	November 25, 2019

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