

Emtricitabine

Catalog No. HRP-10071

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Product Description:

Emtricitabine (FTC; brand name: Emtriva®), a nucleoside analog of cytidine, is phosphorylated by cellular enzymes to form emtricitabine 5'-triphosphate. Emtricitabine 5'-triphosphate inhibits the activity of human immunodeficiency virus type 1 (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.

CAS Number	143491-57-0
Chemical Name	4-amino-5-fluoro-1-(2R,5S)-[2-(hydroxymethyl)-1,3-oxathiolan-5-yl]pyrimidin-2(1H)-one
Formula	C ₈ H ₁₀ FN ₃ O ₃ S
Molecular Weight	247.25
Structure	

Lot: 70072705

Receipt Date: 21NOV2024

All information below was provided on 15JUN2023 by Ambeed, Inc. for the bulk material (Ambeed lot A188531-AA9), which has a retest date of 01DEC2025.

TEST	SPECIFICATIONS	RESULTS
Appearance	Report results	White crystalline powder
Content per Vial	Report results	20 mg ± 0.3 mg
¹H NMR	Spectrum consistent with structure	Spectrum consistent with structure
Specific Rotation [α]₂₀/D	Report results	-135.04° (c=0.23, MeOH)
Water Content	Report results	0.31%
Purity (HPLC)	≥ 98%	> 99.9%

/Kenneth R. Crawford/
Kenneth R. Crawford

30 AUG 2025

Lead Technical Writer or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by the manufacturer to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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