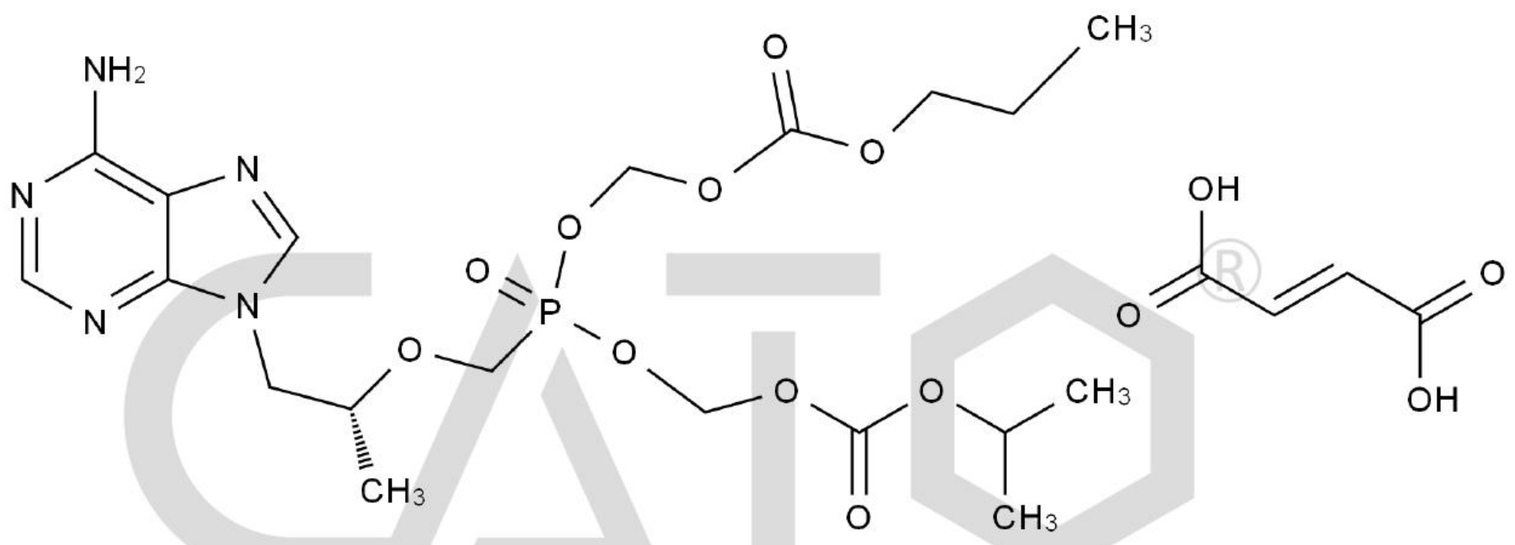
Certificate of Analysis

Reference Material & Standard

Product Name:	Tenofovir disoproxil Impurity 4	**Catalogue Number:**	C4X-10764
Synonyms:	N/A	**Lot Number:**	0310-RH-0022
CAS Number:	1217542-13-6(Free base)	**Expiry Date:**	Sep 02, 2030
Molecular Formula:	$C_{19}H_{30}N_5O_{10}P$ $C_4H_4O_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	519.44 116.07	**Shipping Condition:**	Shipping with Ice Packs
Solubility:	Acetonitrile		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.500%
Loss on Drying	TGA	0.3514%
Assay		97.2%

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Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):
*Assay (%) = (100%-Loss on Drying) * Purity HPLC (%) /100%*
Loss on Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by: Koji Date: Sep 07, 2026

Reviewed by: Lisa Date: Sep 07, 2026

Approved by General Manager: David Date: Sep 07, 2026

CATO Research Chemicals Inc.