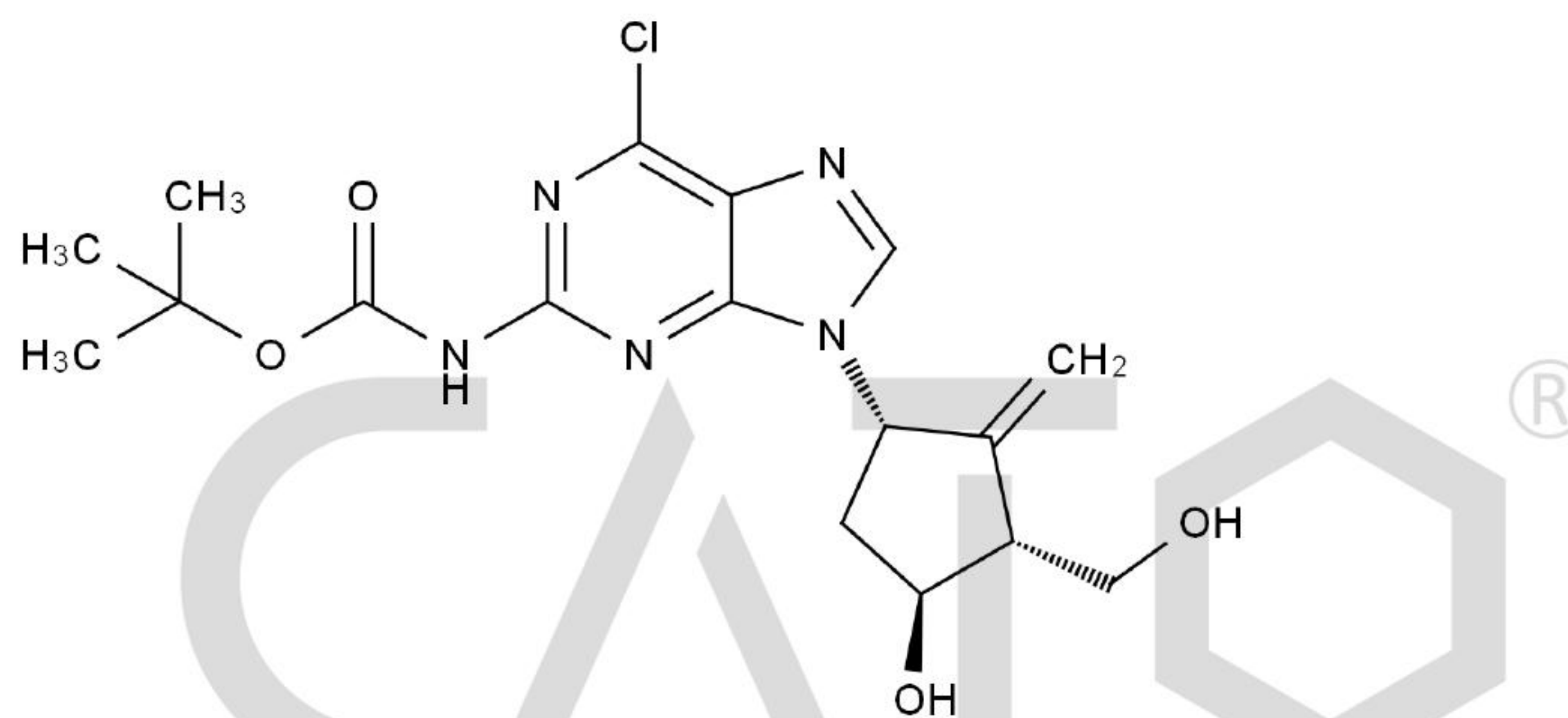


Certificate of Analysis

Reference Material & Standard

Product Name:	Entecavir Impurity 44	Catalogue Number:	C4X-107744
Synonyms:	N/A	Lot Number:	0518-RH-0053
CAS Number:	1354715-30-2	Expiry Date:	May 19, 2030
Molecular Formula:	C ₁₇ H ₂₂ ClN ₅ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	395.84	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&CNMR&HNMR	Confirmed
Purity	HPLC	99.7893%
Water Content	Karl Fischer	0.5%
Residual Solvents	NMR	1.4% methanol
Specific Rotation		[α] _D ^{20.0} (C=52, CH ₃ OH): +34.9°
Assay		97.9%

Comment:

The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content - Residual Solvents) * Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: May 20, 2026

Date: May 20, 2026

Date: May 20, 2026



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

