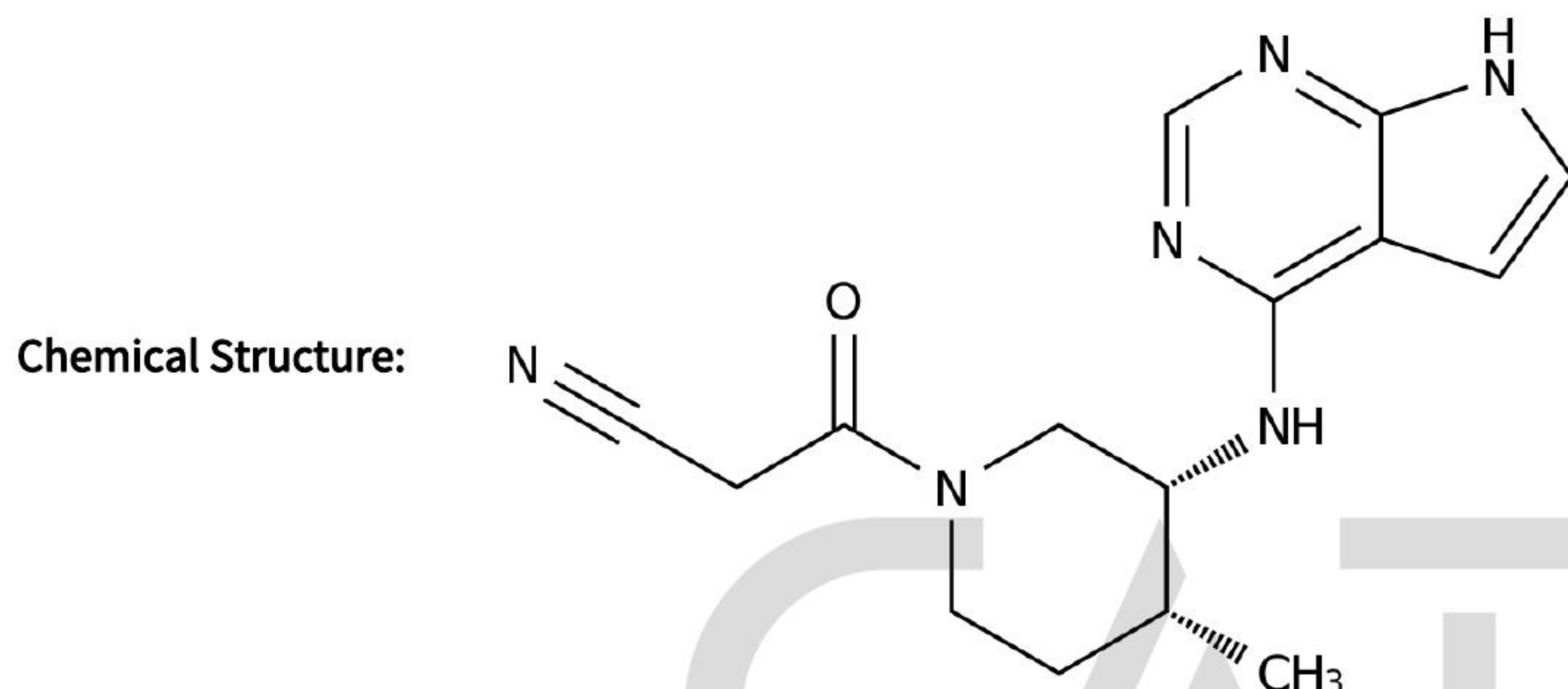


Certificate of Analysis

Reference Material

Product Name:	Tofacitinib Impurity 129	Catalogue Number:	C4X-1079129
Chemical Name:	N/A	Lot Number:	0518-RD-0002
CAS Number:	1527525-58-1	Expiry Date:	May 07, 2025
Molecular Formula:	C ₁₅ H ₁₈ N ₆ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	298.34		



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Solid
Identification	LCMS&IR&HNMR	Confirmed
Purity	HPLC	99.7285%
Water Content	Karl Fischer	3.7%
Residual Solvents	NMR	Not detected in NMR
Optical Rotation		[α] _D ^{25.0} (c=0.51, CH ₃ OH): +32.0°
Assay		96.0%

Comment:

The calculation of the 100% method follows the formula:

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:

Hin Lam

Reviewed by:

Cady

Aporoved by General manager:

David

Date: May 11, 2022

Date: May 20, 2022

Date: May 20, 2022

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