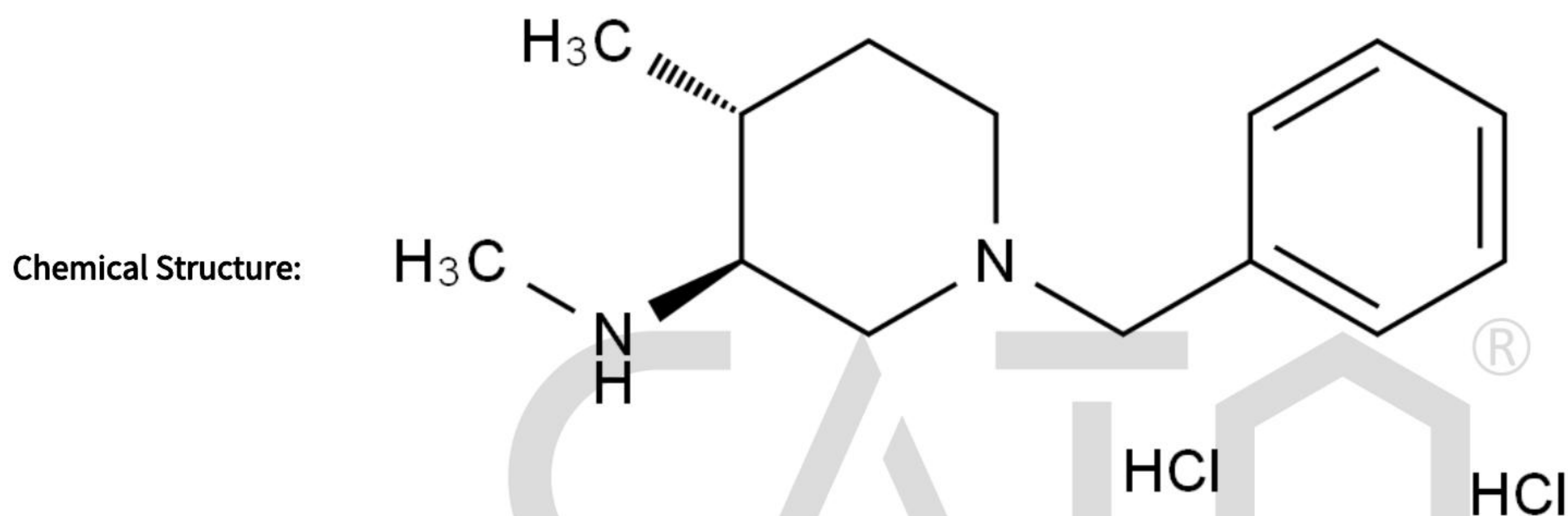


Certificate of Analysis

Reference Material & Standard

Product Name:	Tofacitinib Impurity 110 DiHCl	Catalogue Number:	C4X-1079110
Synonyms:	N/A	Lot Number:	1021-RF-0075
CAS Number:	1821769-41-8	Expiry Date:	Oct 24, 2027
Molecular Formula:	C ₁₄ H ₂₂ N ₂ 2*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	218.34 2*36.46		



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.099%
Water Content	Karl Fischer	0.70%
Residual Solvents	NMR	Not detected in NMR
Assay		98.4%

Comment:

The calculation of the 100% 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:

Lily

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Oct 25, 2024

Date: Oct 25, 2024

Date: Oct 25, 2024

