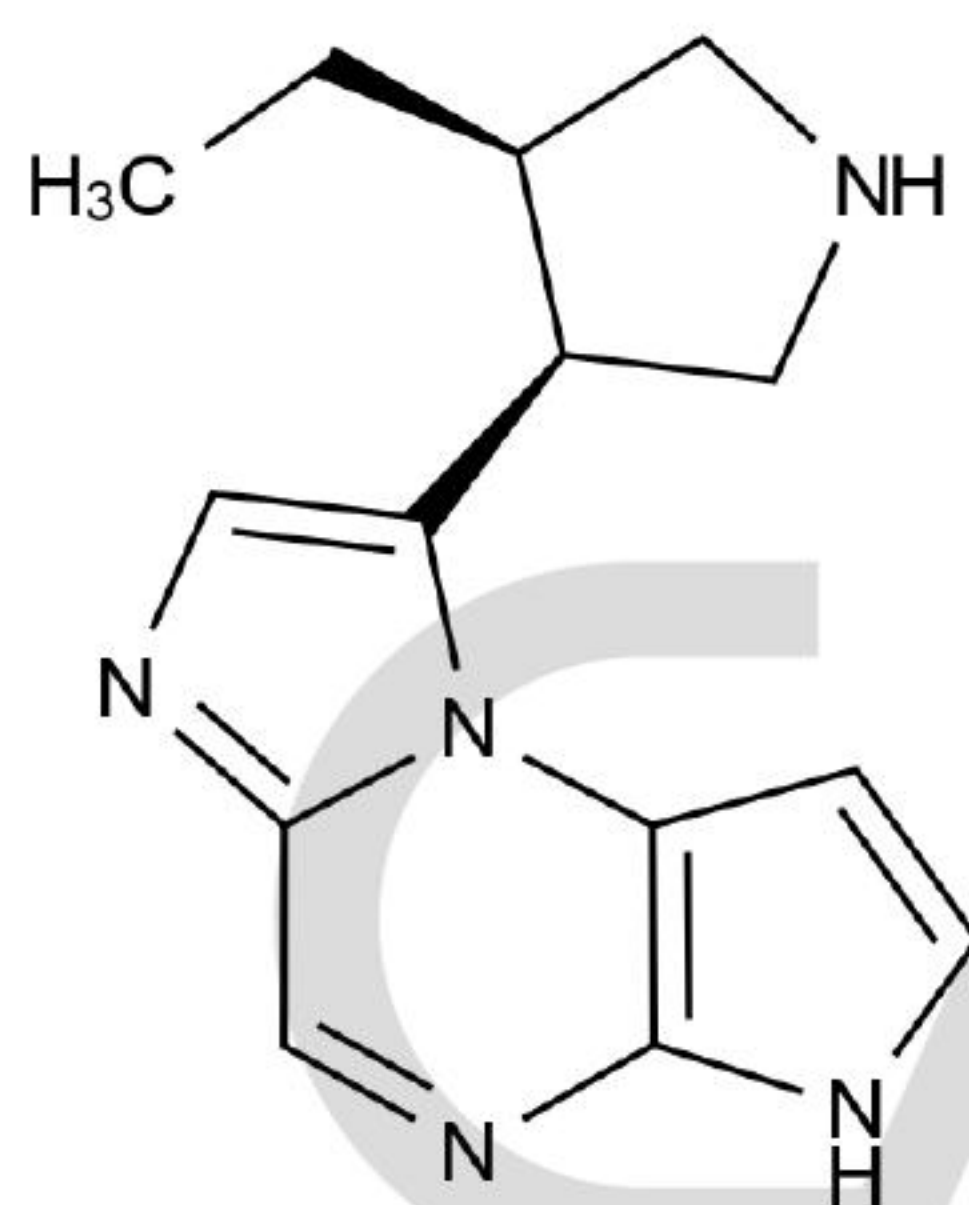


Certificate of Analysis

Reference Material & Standard

Product Name:	Upadacitinib Impurity 176	Catalogue Number:	C4X-2405176
Synonyms:	N/A	Lot Number:	0918-RG-0011
CAS Number:	N/A	Expiry Date:	Jun 23, 2028
Molecular Formula:	C ₁₄ H ₁₇ N ₅	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	255.32		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.1683%
Water Content	Karl Fischer	2.695%
Residual Solvents	NMR	0.99% methanol
Assay		95.5%

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:

Lily

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Sep 19, 2025

Date: Sep 19, 2025

Date: Sep 19, 2025



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