

Certificate of Analysis

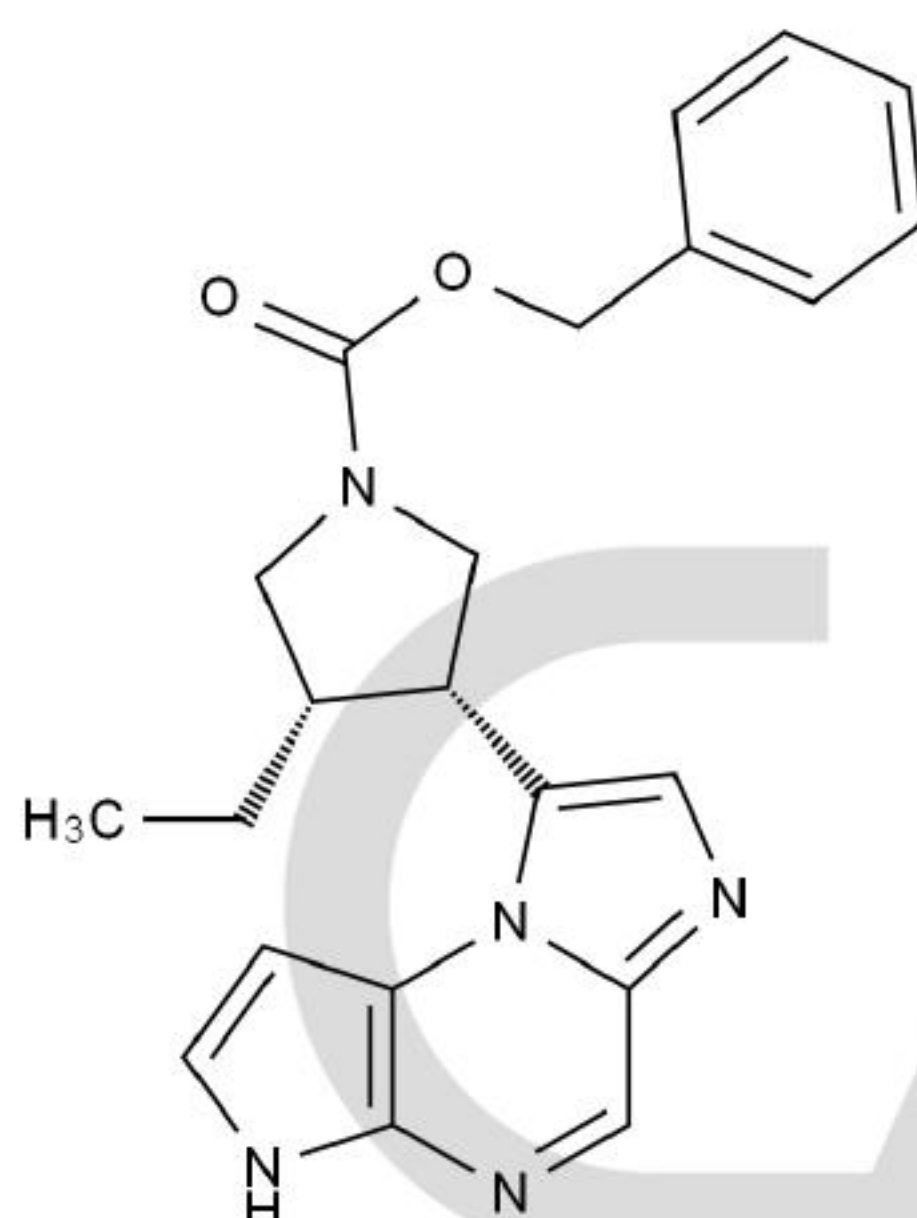
Reference Material & Standard

Product Name:	Upadacitinib Impurity 12	Catalogue Number:	C4X-240512
Synonyms:	N/A	Lot Number:	1009-RG-0042
CAS Number:	2095311-51-4	Expiry Date:	Sep 25, 2029
Molecular Formula:	C ₂₂ H ₂₃ N ₅ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	389.45		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.945 %
Water Content	Karl Fischer	0.35%
Residual Solvents	NMR	1.06% dichloromethane
Assay		98.5%

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: Oct 10, 2025

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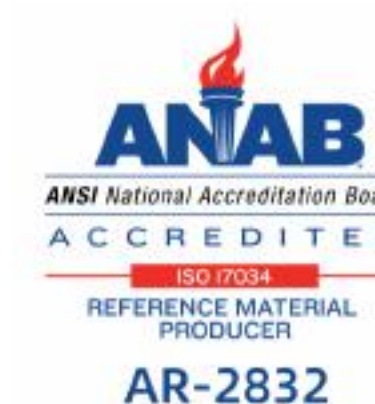
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