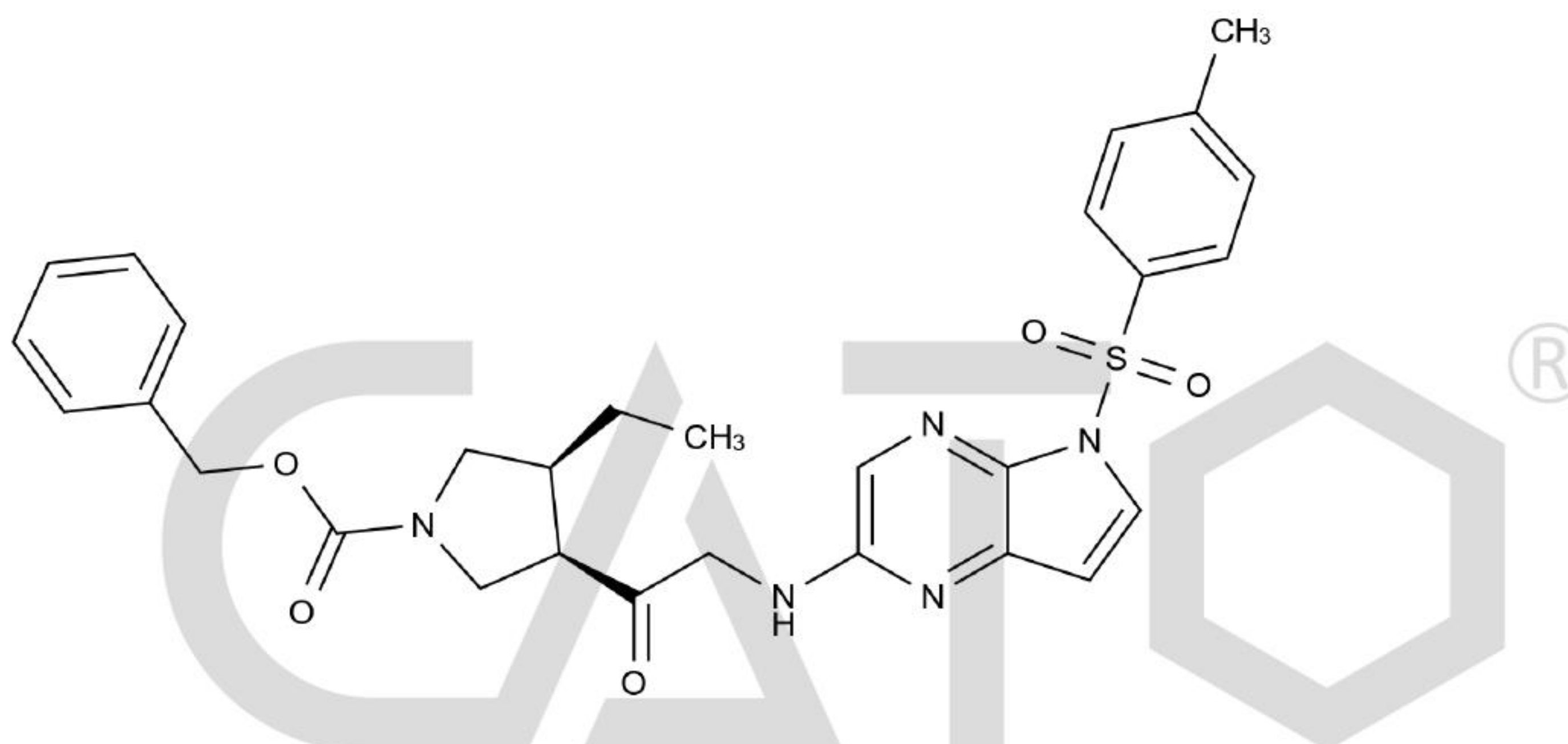


Certificate of Analysis

Reference Material & Standard

Product Name:	Upadacitinib Impurity 50	Catalogue Number:	C4X-240550
Synonyms:	N/A	Lot Number:	0320-RG-0029
CAS Number:	2270173-63-0	Expiry Date:	Sep 04, 2027
Molecular Formula:	C ₂₉ H ₃₁ N ₅ O ₅ S	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	561.65	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.9235%
Loss On Drying	TGA	1.095%
Assay		96.9%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) * Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Mar 20, 2025

Date: Mar 21, 2025

Date: Mar 21, 2025

