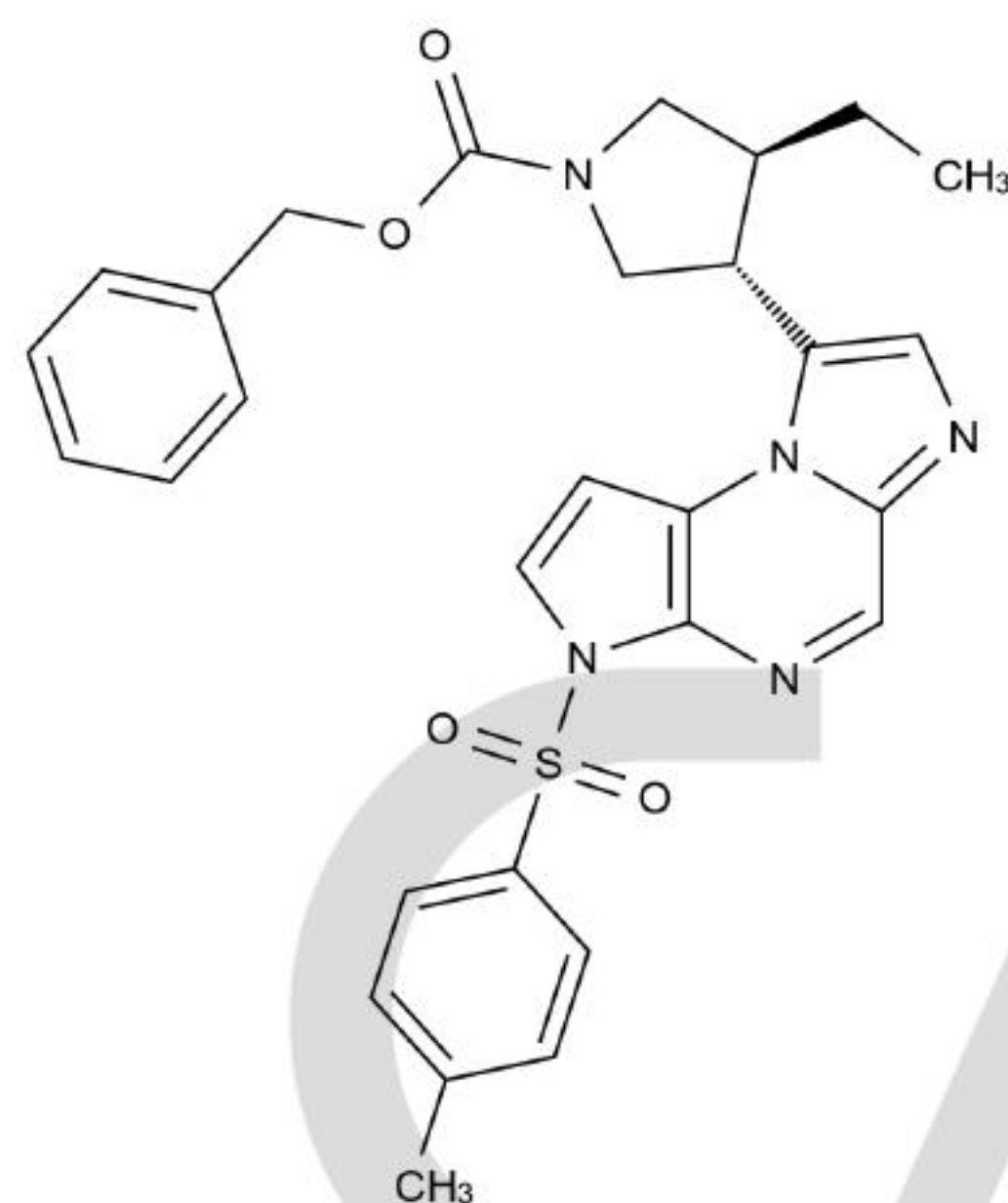


Certificate of Analysis

Reference Material & Standard

Product Name:	Upadacitinib Impurity 51	Catalogue Number:	C4X-240551
Synonyms:	N/A	Lot Number:	0918-RF-0091
CAS Number:	2270173-65-2	Expiry Date:	Sep 22, 2027
Molecular Formula:	C ₂₉ H ₂₉ N ₅ O ₄ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	543.64	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Yellow Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.606%
Loss On Drying	TGA	0.6553%
Assay		99.0%

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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 23, 2024

Date: Sep 24, 2024

Date: Sep 24, 2024

