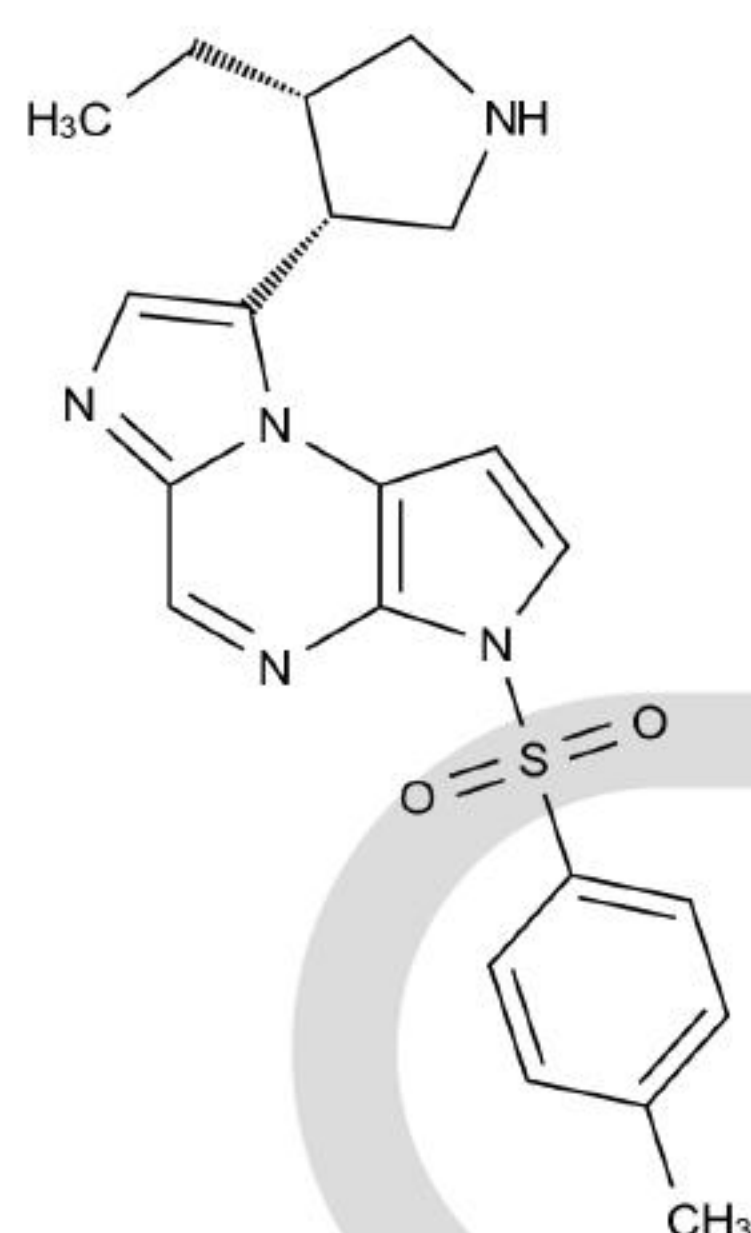


Certificate of Analysis

Reference Material & Standard

Product Name:	Upadacitinib Impurity 47	Catalogue Number:	C4X-240547
Synonyms:	N/A	Lot Number:	0918-RF-0097
CAS Number:	1428243-28-0	Expiry Date:	Sep 22, 2027
Molecular Formula:	C ₂₁ H ₂₃ N ₅ O ₂ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	409.50	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Light Brown Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.861%
Loss On Drying	TGA	0.1375%
Assay		99.7%

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

