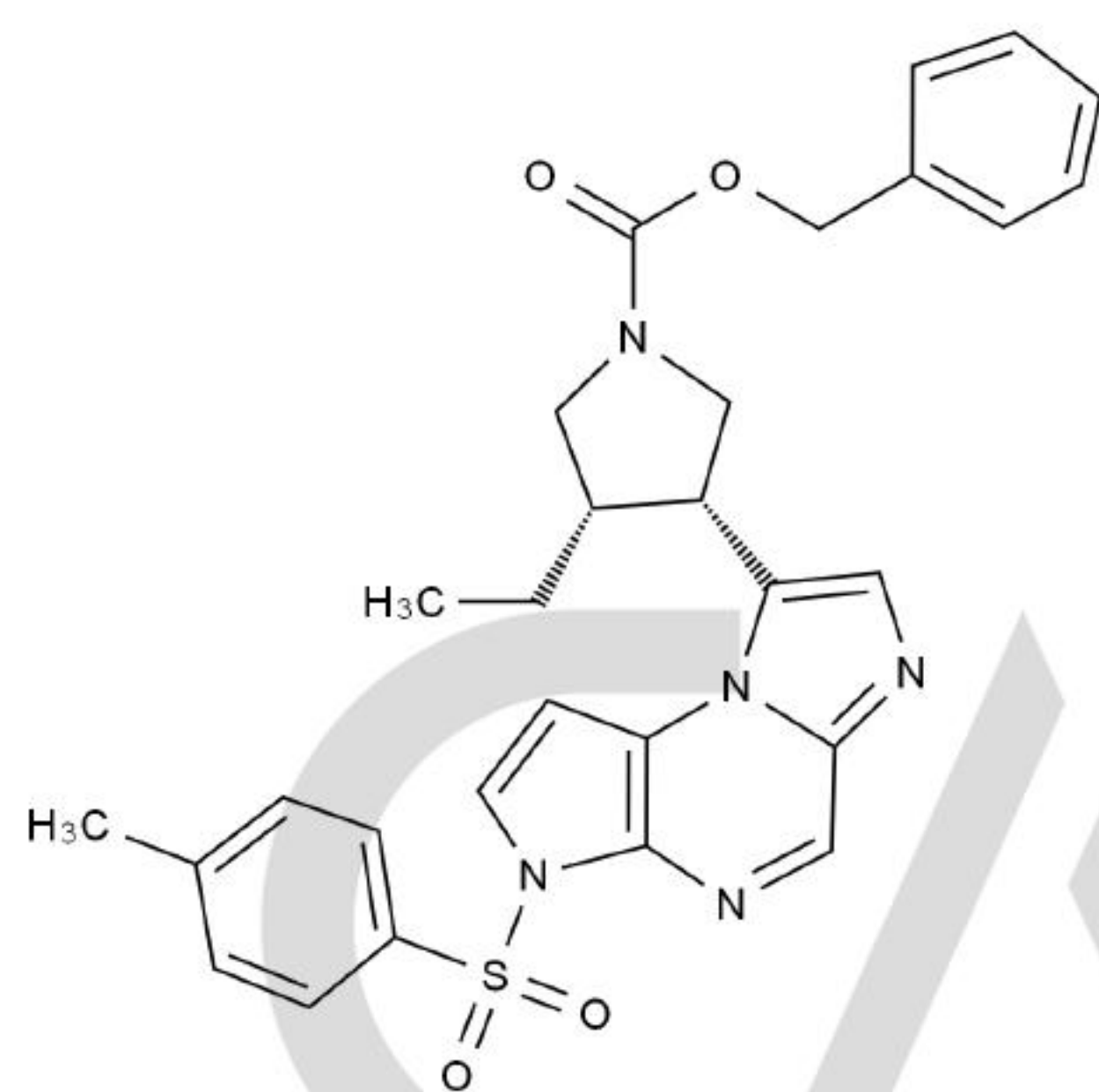


Certificate of Analysis

Reference Material & Standard

Product Name:	Upadacitinib Impurity 13	Catalogue Number:	C4X-240513
Synonyms:	N/A	Lot Number:	0918-RF-0093
CAS Number:	1708997-42-5	Expiry Date:	Sep 19, 2027
Molecular Formula:	C29H29N5O4S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	543.64	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	99.315%
Loss On Drying	TGA	0.4125%
Assay		98.9%

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:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Sep 20, 2024

Date: Sep 20, 2024

Date: Sep 20, 2024

