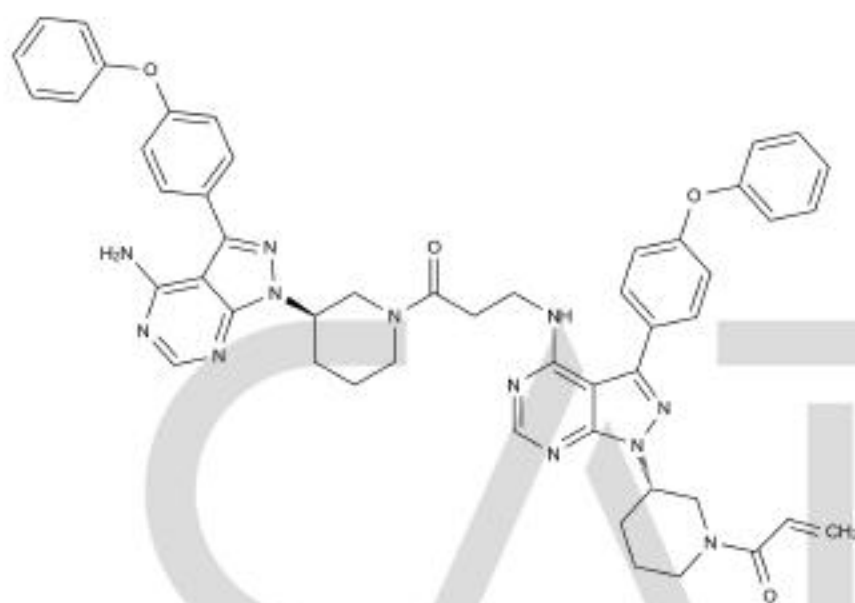


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 90	Catalogue Number:	C4X-106490
Synonyms:	N/A	Lot Number:	0412-SA-7411
CAS Number:	2417548-81-1	Expiry Date:	Apr 11, 29
Molecular Formula:	$C_{50}H_{48}N_{12}O_4$	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	880.99		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	97.901%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Apr 12, 25

Date: Apr 12, 25

Date: Apr 12, 25



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Directions:

1. *Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
2. *Minimum sample size: 1mg is recommended as the minimum sample size.*
3. *Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
4. *Instructions for handling and correct use: Handling in a well-ventilated place.*

Document Version:

Revision No.	Date	Reason for Revision
01	Apr 12, 25	First release.

