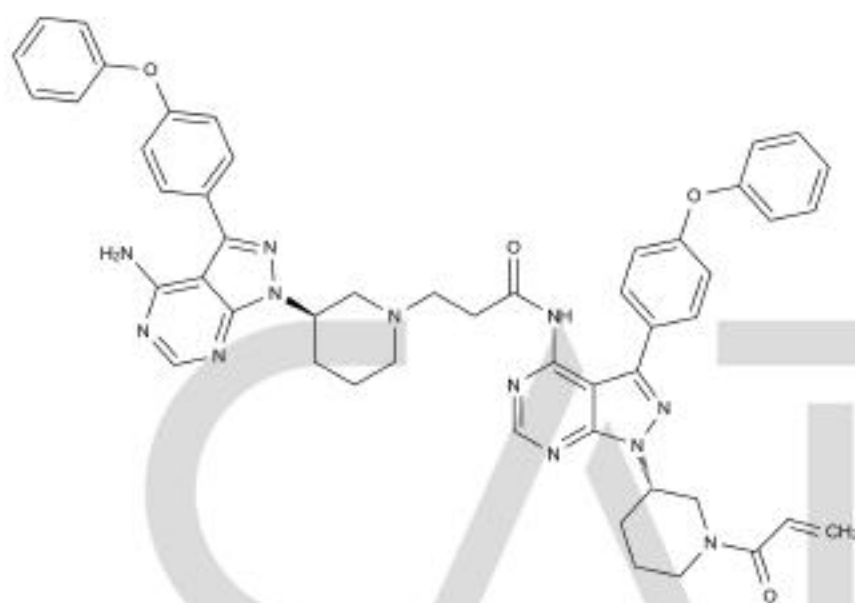


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 89	Catalogue Number:	C4X-106489
Synonyms:	N/A	Lot Number:	1102-SA-7413
CAS Number:	N/A	Expiry Date:	Nov 01, 28
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	98.593%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Nov 02, 24

Date: Nov 02, 24

Date: Nov 02, 24



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>



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	Nov 02, 24	First release.

