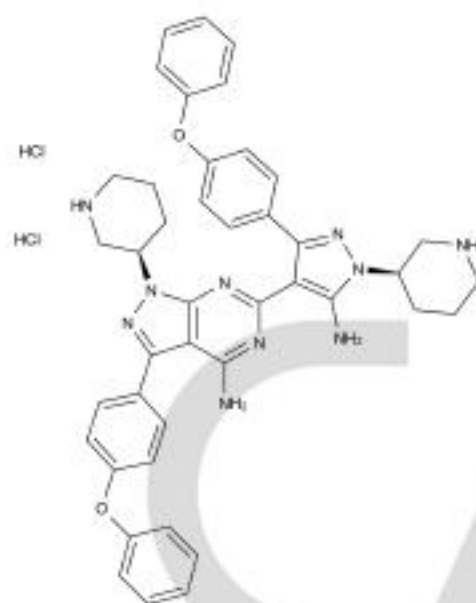


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 167	Catalogue Number:	C4X-1064167
Synonyms:	N/A	Lot Number:	0820-SA-7822
CAS Number:	N/A	Expiry Date:	Aug 19, 29
Molecular Formula:	$C_{42}H_{42}N_{10}O_2 \cdot 2HCl$	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	718.85 2*36.46		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	97.992%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Aug 20, 25

Date: Aug 20, 25

Date: Aug 20, 25



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>

Page 1 of 6



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	Aug 20, 25	First release.

