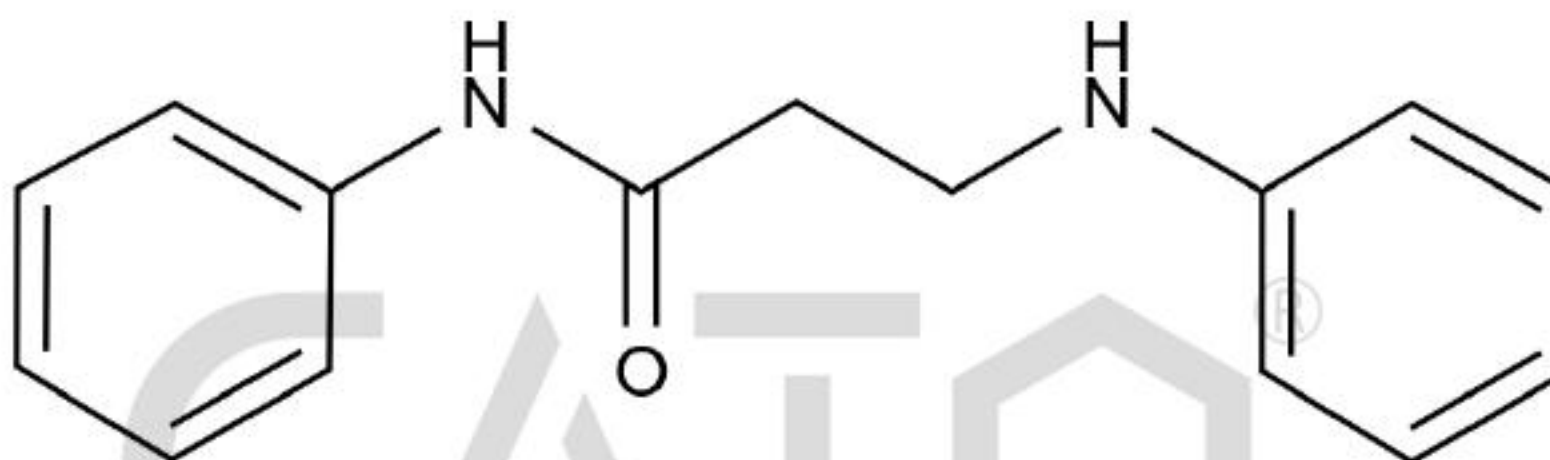


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 181	Catalogue Number:	C4X-1064181
Synonyms:	N/A	Lot Number:	0729-SA-7464
CAS Number:	79888-54-3	Expiry Date:	Jul 28, 27
Molecular Formula:	C ₁₅ H ₁₆ N ₂ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	240.30		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	97.744%

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Jul 29, 23

Date: Jul 29, 23

Date: Jul 29, 23



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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	Jul 29, 23	First release.

