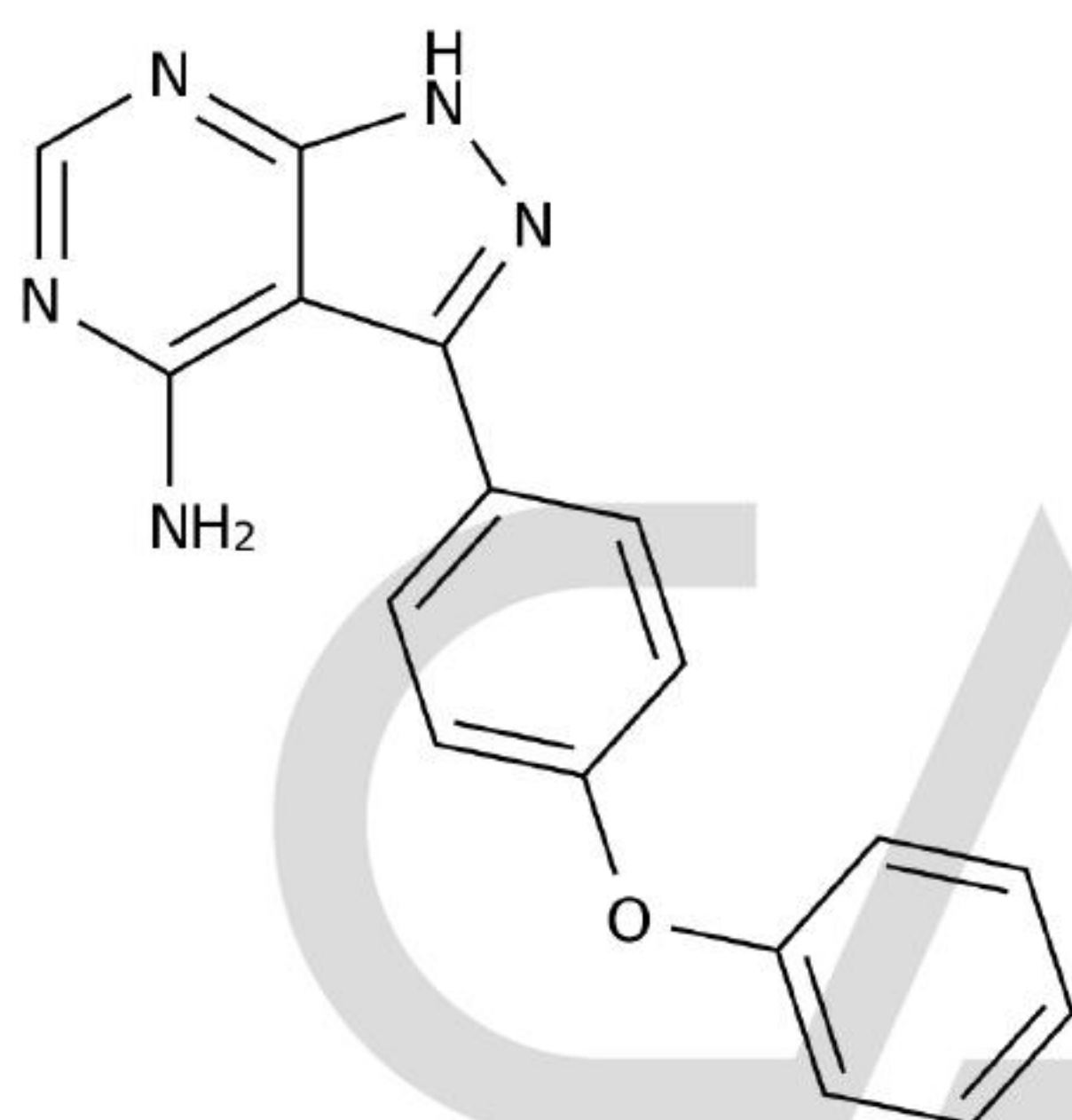


Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib Impurity 46	Catalogue Number:	C4X-106446
Synonyms:	N/A	Lot Number:	0303-RH-0016
CAS Number:	330786-24-8	Expiry Date:	Mar 04, 2030
Molecular Formula:	C ₁₇ H ₁₃ N ₅ O	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	303.32	Shipping Condition:	Shipping at Room Temperature
Solubility:	DMSO	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.794%
Loss On Drying	TGA	0.5579%
Assay		99.2%

Comment:

The calculation of the mass balance 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:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Mar 05, 2026

Date: Mar 05, 2026

Date: Mar 05, 2026



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>

