

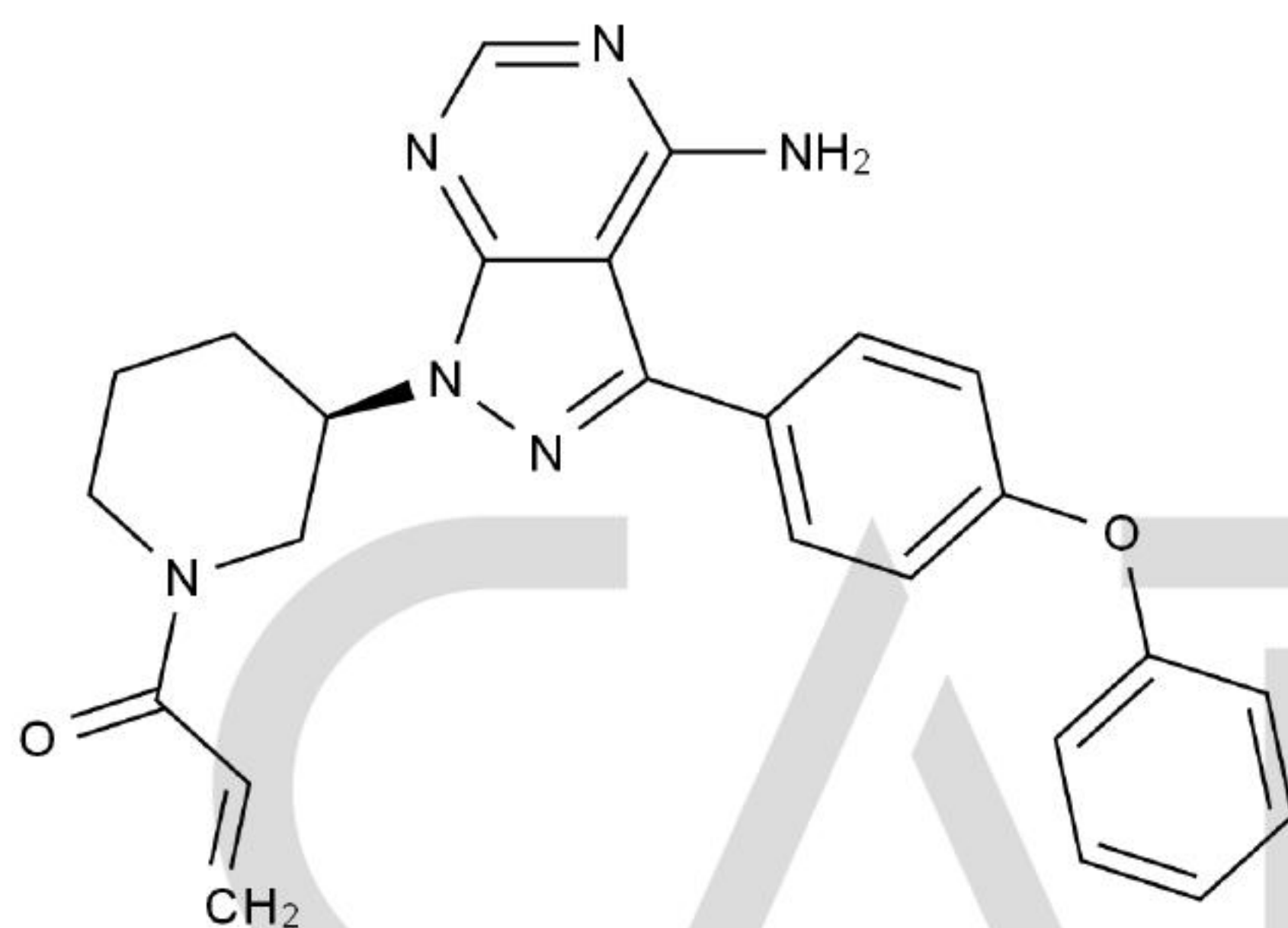
Certificate of Analysis

Reference Material & Standard

Product Name:	Ibrutinib	Catalogue Number:	C4X-1064
Synonyms:	N/A	Lot Number:	0702-RF-0044
CAS Number:	936563-96-1	Expiry Date:	Jul 01, 2027
Molecular Formula:	C ₂₅ H ₂₄ N ₆ O ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	440.50	Warning:	



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.711%
Residue on Ignition	Muffle Furnace	0.07%
Loss On Drying	TGA	0.0511%
Optical Rotation		[α] _D ^{25.0} (c=0.01,DMSO): -126.9°
Assay		99.6%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Residue on Ignition - Loss On Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

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Reviewed by:

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Approved by General Manager:

David

Date: Jul 02, 2024

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Date: Jul 02, 2024

