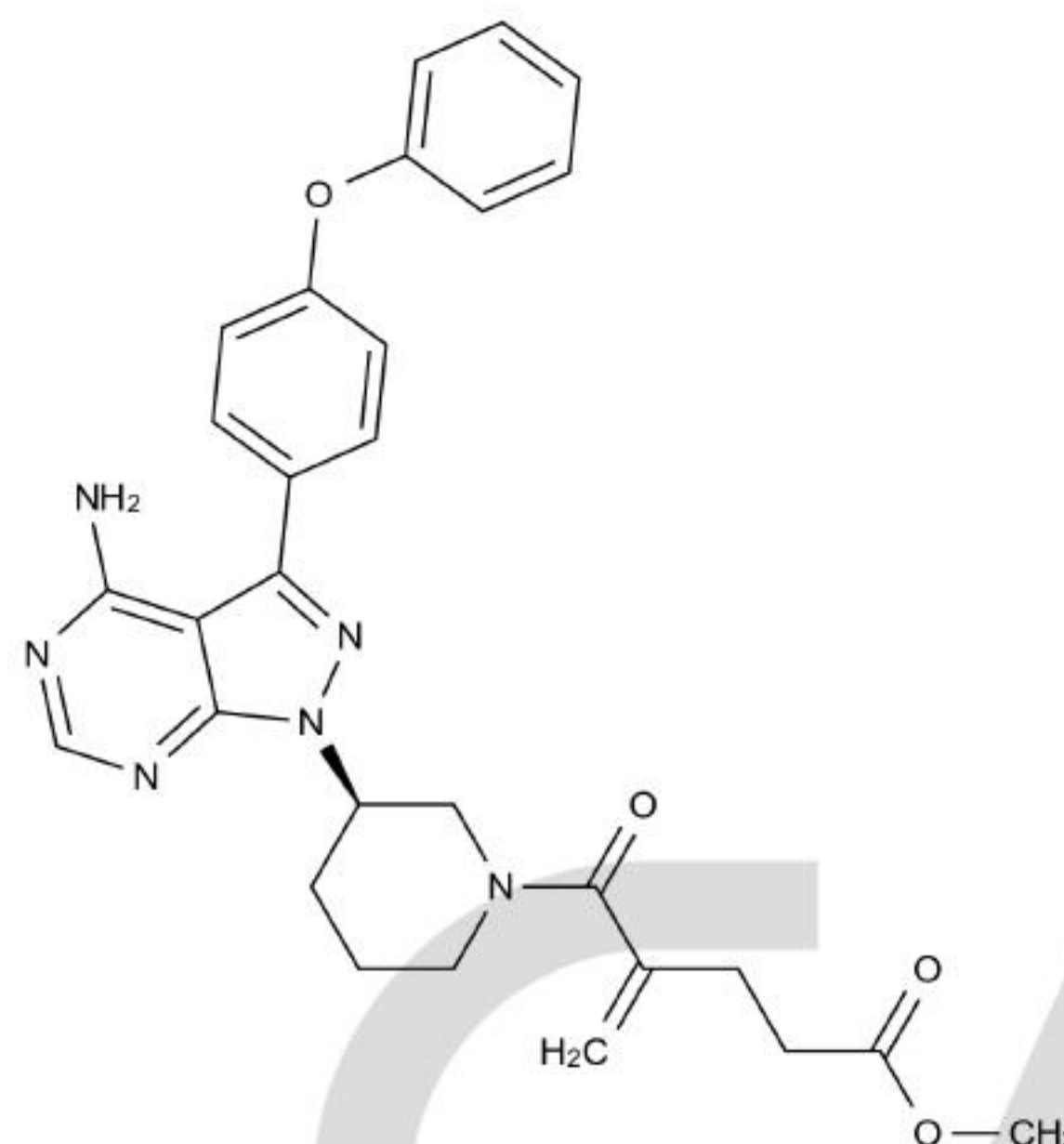


Certificate of Analysis

Reference Material

Product Name:	Ibrutinib Impurity 65	Catalogue Number:	C4X-106465
Chemical Name:	N/A	Lot Number:	1121-RD-0006
CAS Number:	N/A	Expiry Date:	Nov 22, 2025
Molecular Formula:	C ₂₉ H ₃₀ N ₆ O ₄	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	526.59		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.2%
Residual Solvents	NMR	1.32% ethyl acetate
Assay	qNMR	97.3%

Comment:

Assay was determined by quantitative ¹H-NMR.

Signature:

Prepared by:

Nacy

Reviewed by:

Xenia

Aporoved by General manager:

David

Date: Nov 23, 2022

Date: Nov 23, 2022

Date: Nov 23, 2022

