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CERTIFICATE OF ANALYSIS

Analysis Date:

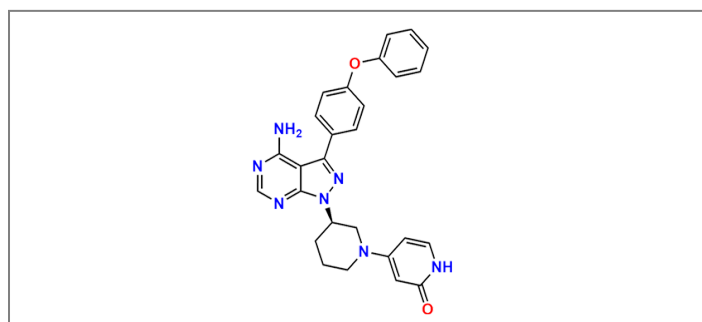
Re-test Date:

Product Name: Ibrutinib Impurity 45

Identification:

Chemical Name: (R)-4-(3-(4-Amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)pyridin-2(1H)-one

Synonyms : NA
CAS Number : NA
CAT Number : CP-I20088
Molecular Formula : C₂₇H₂₅N₇O₂
Molecular Weight : 479.5



Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	¹ H NMR	Confirm to structure



Prepared and Reviewed By

Ms Priyanka Salunkhe
(Quality Control)

Approved By

Ms Rohini Gagare
(Quality Assurance)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.