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CERTIFICATE OF ANALYSIS

Analysis Date:

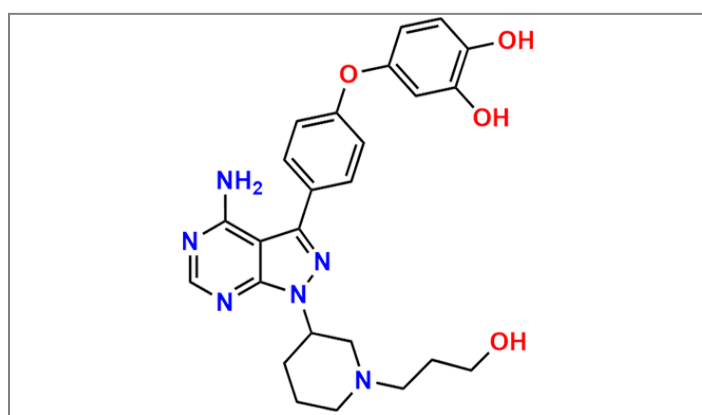
Re-test Date:

Product Name: Ibrutinib Impurity 51

Identification:

Chemical Name: 4-(4-(4-Amino-1-(1-(3-hydroxypropyl)piperidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-3-yl)phenoxy)benzene-1,2-diol

Synonyms : NA
CAS Number : 1288339-00-3
CAT Number : CP-I20053
Molecular Formula : C₂₅H₂₈N₆O₄
Molecular Weight : 476.54



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)	H1NMR	Confirm to structure



Prepared and Reviewed By

Ms Priyanka Salunkhe
(Manager QC Analytical)

Approved By

Ms Rohini Gagare
(QA Head)

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