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CERTIFICATE OF ANALYSIS

Analysis Date:

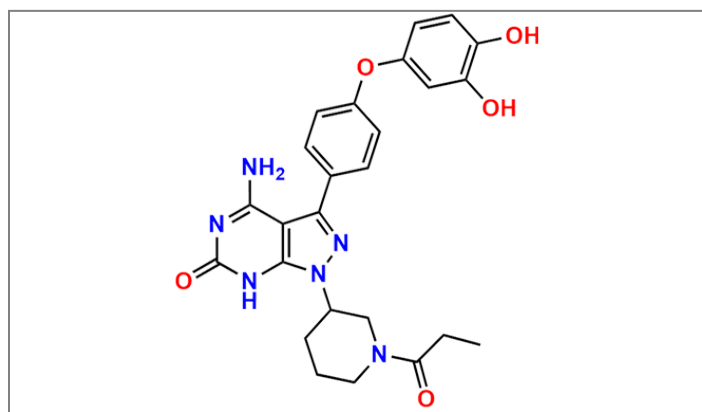
Re-test Date:

Product Name: Ibrutinib Impurity 48

Identification:

Chemical Name: 4-Amino-3-(4-(3,4-dihydroxyphenoxy)phenyl)-1-(1-propionylpiperidin-3-yl)-1,7-dihydro-6H-pyrazolo[3,4-d]pyrimidin-6-one

Synonyms : NA
CAS Number : 1288338-98-6
CAT Number : CP-I20050
Molecular Formula : C₂₅H₂₆N₆O₅
Molecular Weight : 490.52



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.