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CERTIFICATE OF ANALYSIS

Analysis Date:

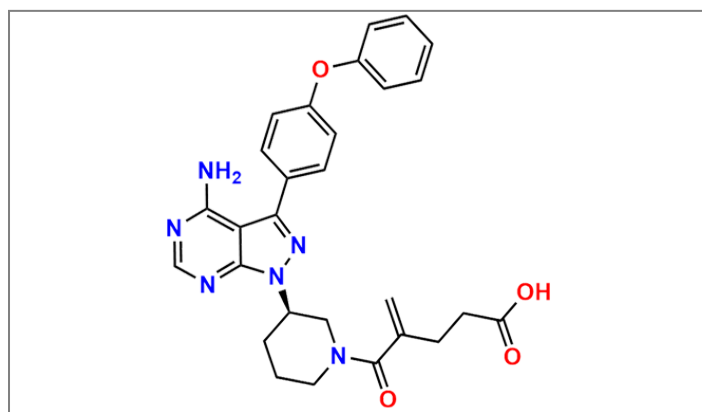
Re-test Date:

Product Name: Ibrutinib Impurity 13

Identification:

Chemical Name: (R)-4-(3-(4-Amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidine-1-carbonyl)pent-4-enoic Acid

Synonyms : NA
CAS Number : 2052279-48-6
CAT Number : CP-I20033
Molecular Formula : C₂₈H₂₈N₆O₄
Molecular Weight : 512.57



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.