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## CERTIFICATE OF ANALYSIS

Analysis Date:

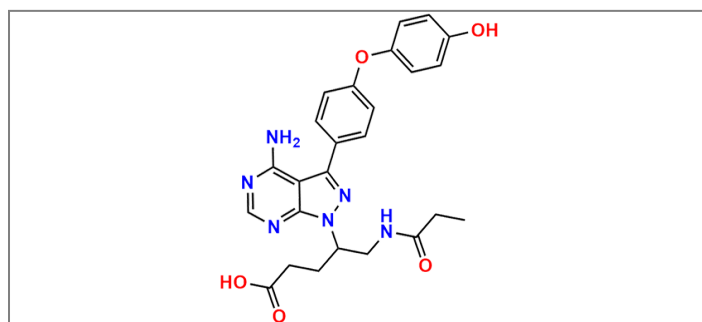
Re-test Date:

**Product Name: Ibrutinib Impurity 53**

### Identification:

Chemical Name: 4-(4-Amino-3-(4-(4-hydroxyphenoxy)phenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)-5-propionamidopentanoic acid

Synonyms : NA  
CAS Number : 1288339-02-5  
CAT Number : CP-I20055  
Molecular Formula : C<sub>25</sub>H<sub>26</sub>N<sub>6</sub>O<sub>5</sub>  
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.