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## CERTIFICATE OF ANALYSIS

Analysis Date: Nov 2025

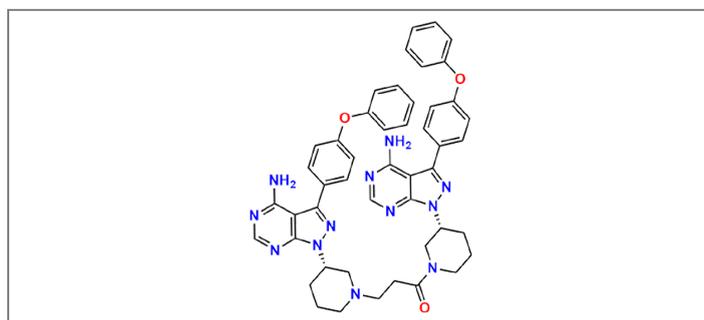
Re-test Date: Oct 2028

**Product Name: Ibrutinib Impurity 28**

### Identification:

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

Synonyms : NA  
CAS Number : 1288338-97-5  
CAT Number : CP-I20039  
Molecular Formula : C<sub>47</sub>H<sub>46</sub>N<sub>12</sub>O<sub>3</sub>  
Molecular Weight : 826.97  
Batch Number : CP-31-133



Storage Condition : Tightly closed, Inert atmosphere at 2 to 8° C

Shipping condition : All Products are stable to be shipped at room temperature, if specific condition required it is mention in the COA

### Analytical Information:

Sr. No.	Test	Result
1)	Description	Light Orange Solid
2)	Solubility	Soluble in Methanol/ DMSO
3)	MASS By LCMS	Confirm to Structure
4)	Purity by HPLC	95.09%
5)	<sup>1</sup> H NMR	Confirm to Structure
6)	Weight loss by TGA	2.645%
7)	Potency by TGA	92.57%



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.