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CERTIFICATE OF ANALYSIS

Analysis Date:

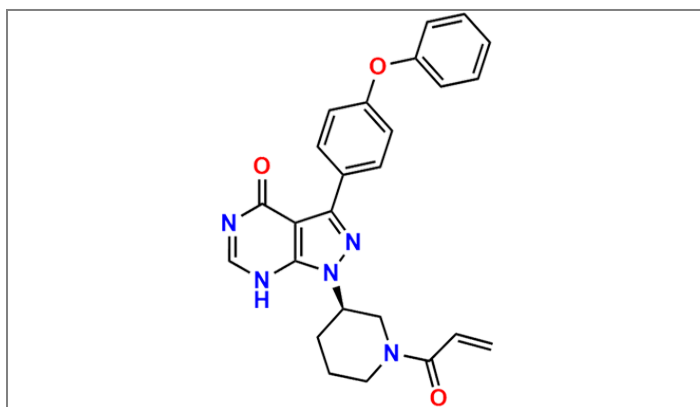
Re-test Date:

Product Name: Ibrutinib Hydroxy Impurity

Identification:

Chemical Name: (R)-1-(1-Acryloylpiperidin-3-yl)-3-(4-phenoxyphenyl)-1,7-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one

Synonyms : NA
CAS Number : 2031255-24-8
CAT Number : CP-I20021
Molecular Formula : C₂₅H₂₃N₅O₃
Molecular Weight : 441.49



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.