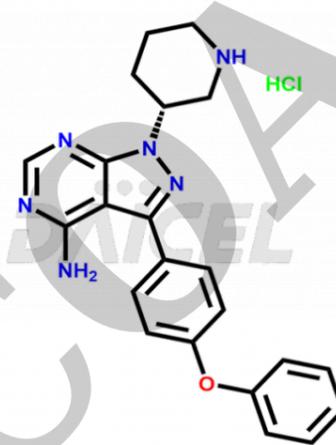


ISO 9001:2015 CERTIFIED

CERTIFICATE OF ANALYSIS

| | | |
|------------------------------|---|--|
| Product Name | Ibrutinib amine impurity | |
| Molecular Formula | C ₂₂ H ₂₃ ClN ₆ O (salt); C ₂₂ H ₂₂ N ₆ O (free base) | |
| Molecular Weight | 422.92 (salt); 386.46 (free base) | |
| Batch Number | XX-XXXX | |
| Batch Quantity | XXX | |
| Date of Manufacturing | DD-MM-YYYY | |
| Date of Analysis | DD-MM-YYYY | |
| Next Retest Date | DD-MM-YYYY | |
| Catalogue Number | DCTI-C-2685 | |
| CAS Number | 1553977-42-6 | |
| COA Number | PA-XXXX | |
| IUPAC Name | (R)-3-(4-phenoxyphenyl)-1-(piperidin-3-yl)-1H-pyrazolo[3,4-d]pyrimidin-4-amine hydrochloride | |
| Storage and Handling | Store at 2-8°C | |



| Sl. No | * Test | Result |
|--------|---|--------|
| | Description | |
| 1. | Identification i) By IR ii) By NMR iii) By MS | -- |
| 2. | Chromatographic Purity (% by HPLC) | -- |

Remarks: *Test or tests as mentioned above may vary as per the product nature or customer's requirement

| Function | Compiled by | Reviewed by | Reviewed by | Approved by |
|---------------|---------------------|---------------------|-------------------|-------------------|
| Name | xxx | xxx | xxx | xxx |
| Department | Pharma Standards QC | Pharma Standards QC | Quality Assurance | Quality Assurance |
| Sign and Date | | | | |

| | |
|------------------|---|
| Attachments | IR, NMR, MS spectra, HPLC Chromatogram. |
| Date of Shipment | DD-MMM-YYYY |

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