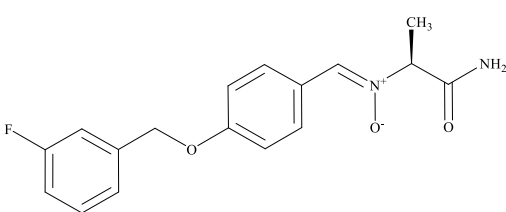


Certificate of Analysis

 Certificate No.: **20211221003**

Date: December 21, 2021

Retest date: December 20, 2024

| | | |
|------------------------------|--|--|
| Compound Name: | Safinamide Impurity 7 | |
| Synonyms: | (S,Z)-N-(1-amino-1-oxopropan-2-yl)-1-(4-((3-fluorobenzyl)oxy)phenyl) methanimine oxide | |
| TLC Catalogue Number: | S-073009 |  |
| CAS Number: | N/A | |
| Molecular Weight: | 316.34 | |
| Molecular Formula: | C ₁₇ H ₁₇ FN ₂ O ₃ | |
| Source: | TLC Pharmaceutical Standards | |
| Source Lot No.: | 2043-042A7 | |
| Storage Conditions: | Store at 2-8 °C | |
| Solubility: | Acetonitrile, DMSO | |

| Test Description | Specifications | Results |
|--------------------------------|--|--|
| Visual Description | White to off-white solid | Conforms |
| Identification | | |
| IR | Conforms to structure | Conforms |
| MS | Conforms to structure | Conforms |
| ¹H NMR | Conforms to structure | Conforms |
| Purity (HPLC) | Not less than 95.0% | 99.9% |
| Impurity (HPLC) | RT 6.96, 0.15% | |
| Water Content (KF) | N/A | 0.2% |
| Optical Rotation | N/A | [α] _D ^{25.0} (c=0.30, DMSO): +64.1° |
| Residual Solvents (NMR) | 0.1% methanol and 0.1% dichloromethane | |
| Assay (%) | Not less than 90.0% | 99.5% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|-----------|------|
| Reviewed and approved by: | Quality Control | | |
| Approved by: | Quality Assurance | | |

Attachments: HPLC, IR, MS and NMR spectra.