

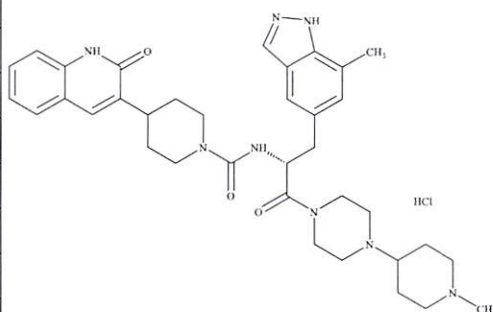
Certificate of Analysis

Certificate No.: **20250603005**



Date: June 3, 2025

Retest date: May 23, 2028

| | |
|--------------------------------------|--|
| Compound Name: Zavegepant HCl | |
| Synonyms: | (R)-N-(3-(7-methyl-1H-indazol-5-yl)-1-(4-(1-methylpiperidin-4-yl)piperazin-1-yl)-1-oxopropan-2-yl)-4-(2-oxo-1,2-dihydroquinolin-3-yl)piperidine-1-carboxamide, hydrochloride (1:1) |
| TLC Catalogue Number: | Z-046001 |
| CAS Number: | 1414976-20-7 |
| Alternate CAS Number: | 1337918-83-8 (free base) |
| Molecular Weight: | 638.82 36.46 |
| Molecular Formula: | C ₃₆ H ₄₆ N ₈ O ₃ · HCl |
| Source: | TLC Pharmaceutical Standards |
| Source Lot No.: | 6585-043A1 |
| Storage Conditions: | Hygroscopic, store at 2-8 °C |
| Solubility: | Methanol, DMSO, Water |



| Test Description | Specifications | Results |
|--------------------------------|---|--|
| Visual Description | White to off-white solid | Conforms |
| Identification | | |
| IR | Conforms to structure | Conforms |
| MS | Conforms to structure | Conforms |
| ¹ H NMR | Conforms to structure | Conforms |
| Purity (HPLC) | Not less than 95.0% | 99.8% |
| Impurity (HPLC) | N/A | |
| Residue (TGA at 900 °C) | N/A | 0.1% |
| Optical Rotation | [α] _D ^{25.0} (c=1.04, CH ₃ OH): -27.3° | [α] _D ^{25.0} (c=0.89, CH ₃ OH): -23.8° |
| Residual Solvents (NMR) | No residual solvent | |
| Assay (qNMR) | Not less than 90.0% | 94.2% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 06/03/2025 |
| Approved by: | Quality Assurance |  | 06/03/2025 |

Attachments: Peak Attribution Table, HPLC, IR, MS, NMR and TGA spectra.