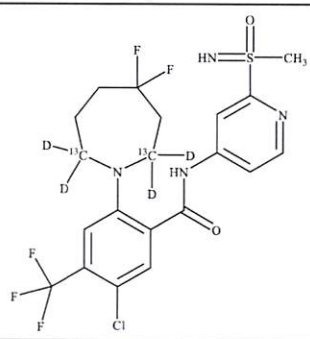


Certificate of Analysis

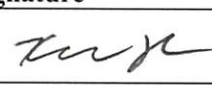

Certificate No.: **20260407018**

Date: April 7, 2026

Retest date: April 1, 2029

| | | |
|------------------------------|---|---|
| Compound Name: | <i>rac</i> -NR-2501- ¹³ C ₂ -d ₄ | |
| Synonyms: | 5-chloro-2-(4,4-difluoroazepan-1-yl)-2,7- ¹³ C ₂ -2,2,7,7-d ₄)-N-(2-(S-methylsulfonimidoyl)pyridin-4-yl)-4-(trifluoromethyl)benzamide | |
| TLC Catalogue Number: | N-193006 |  |
| CAS Number: | N/A | |
| Alternate CAS Number: | 3029020-57-0 (non-labelled) | |
| Molecular Weight: | 516.92 | |
| Molecular Formula: | C ₁₈ ¹³ C ₂ H ₁₆ D ₄ ClF ₅ N ₄ O ₂ S | |
| Source: | TLC Pharmaceutical Standards | |
| Source Lot No.: | 7238-037A6 | |
| Storage Conditions: | Store at 2-8 °C | |
| Solubility: | Methanol, DMSO | |

| 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% | 97.7% |
| Impurity (HPLC) | RT 9.25, 0.19%; RT 11.63, 1.44%; RT 15.47, 0.35% | |
| Isotopic Enrichment | Not less than 95.0% | 98.0% D; 99.0% ¹³C |
| Water Content (KF) | N/A | 0.1% |
| Residual Solvents (NMR) | 0.1% methanol and 0.5% acetonitrile | |
| Assay (%) | Not less than 90.0% | 97.0% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 04/07/2026 |
| Approved by: | Quality Assurance |  | 04/07/2026 |

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