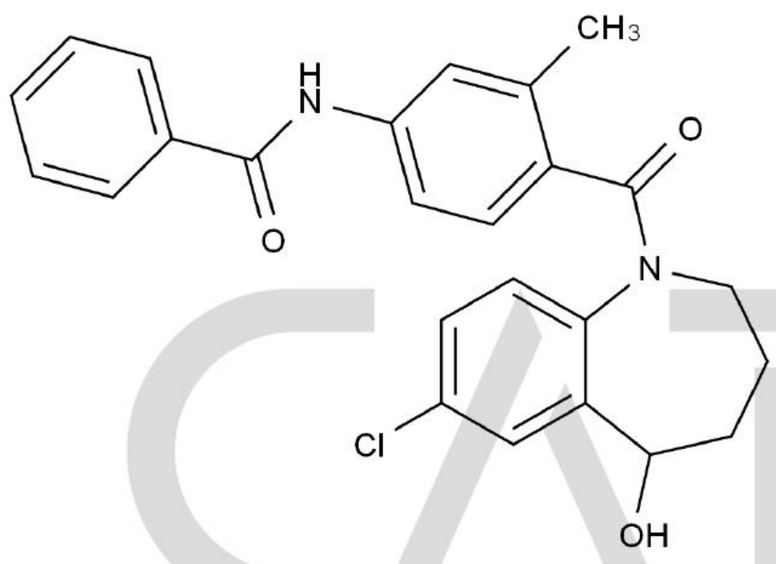
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Tolvaptan Impurity 23 | **Catalogue Number:** | C4X-195523 |
| **Synonyms:** | N/A | **Lot Number:** | 1126-RF-0010 |
| **CAS Number:** | 1580889-33-3 | **Expiry Date:** | Nov 25, 2027 |
| **Molecular Formula:** | $C_{25}H_{23}ClN_2O_3$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 434.91 | **Shipping Condition:** | Shipping at Room Temperature |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Off-White Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 97.1% |
| **Assay** | qNMR | 90.5% |

CATO Research Chemicals Inc.

**Signature:**

Prepared by: Date: Oct 27, 2026

Reviewed by: Date: Oct 27, 2026

Approved by General Manager: Date: Oct 27, 2026

CATO Research Chemicals Inc.