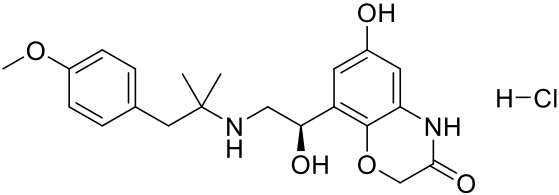




Certificate of Analysis

| | | |
|---------------------|----------------------|--------------|
| MedKoo Cat#: | Product Name: | Lot#: |
| 329649 | Olodaterol HCl | C7R12B11 |

| | |
|--|---|
| Chemical name | |
| (R)-6-hydroxy-8-(1-hydroxy-2-((1-(4-methoxyphenyl)-2-methylpropan-2-yl)amino)ethyl)-2H-benzo[b][1,4]oxazin-3(4H)-one hydrochloride | |
| Synonyms | |
| Olodaterol hydrochloride, Olodaterol HCl, BI-1744, BI 1744, BI1744, Olodaterol, Striverdi. | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 329649 Name: Olodaterol HCl CAS#: 869477-96-3 Lot#: C7R12B11 Chemical Formula: C ₂₁ H ₂₇ ClN ₂ O ₅ Molecular Weight: 422.91 |

| Analysis item | Specifications / Results |
|---------------------------|--|
| Appearance | White to off-white solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | >98.0% |
| Solubility | Soluble in DMSO. |
| Conclusion | This product conforms with MedKoo's quality standards |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Shelf life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE