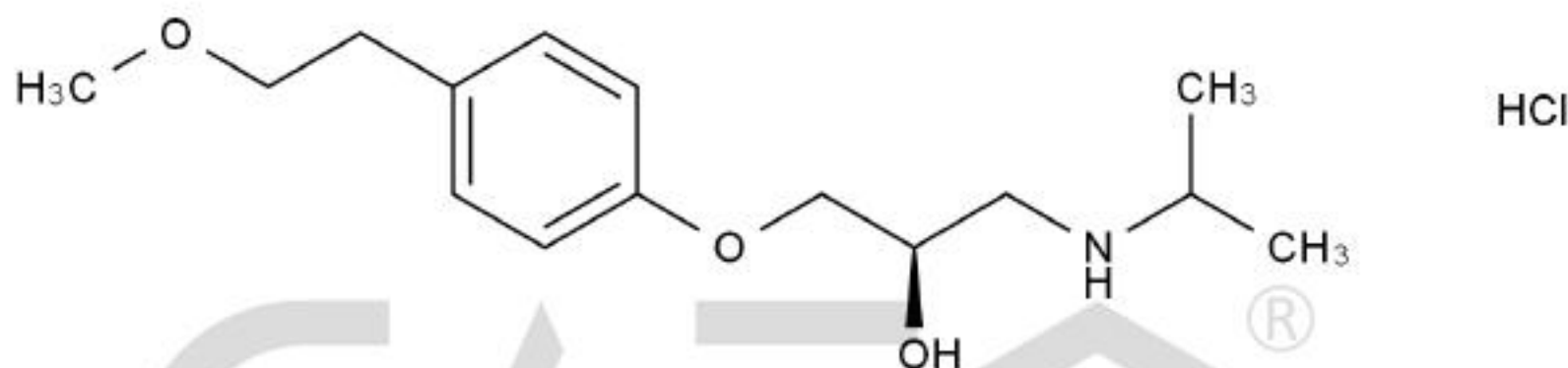


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                     |                          |                                           |
|---------------------------|-----------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Metoprolol Impurity 40 HCl                          | <b>Catalogue Number:</b> | C4X-136741                                |
| <b>Synonyms:</b>          | N/A                                                 | <b>Lot Number:</b>       | 1122-SA-7784                              |
| <b>CAS Number:</b>        | 68985-04-6                                          | <b>Expiry Date:</b>      | Nov 21, 28                                |
| <b>Molecular Formula:</b> | C <sub>15</sub> H <sub>25</sub> NO <sub>3</sub> HCl | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 267.36 36.46                                        |                          |                                           |

Chemical Structure:



| Test Items      | Method            | Results   |
|-----------------|-------------------|-----------|
| Appearance      | Visual inspection | Solid     |
| Identification: | LC&HNMR           | Confirmed |
| Purity:         | HPLC              | 97.282%   |

CATO Research Chemicals Inc.

Signature:

Prepared by:

*Lisa*

Reviewed by:

*Yuki*

Approved by General Manager:

*David*

Date: Nov 22, 24

Date: Nov 22, 24

Date: Nov 22, 24



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## Directions:

- 1. Intended use: This product is suitable for identification and quantification of the analyte(s), instrument calibration, method development and quality control in analytical and R&D applications. It is not intended for administration to humans or animals, and shall not be used to diagnose, treat or cure any diseases.*
- 2. Minimum sample size: 1mg is recommended as the minimum sample size.*
- 3. Metrological traceability: This product meets the requirements of ISO 17034 and is traceable to NMI through an unbroken chain of comparisons.*
- 4. Instructions for handling and correct use: Handling in a well-ventilated place.*

## Document Version:

| Revision No. | Date       | Reason for Revision |
|--------------|------------|---------------------|
| 01           | Nov 22, 24 | First release.      |

