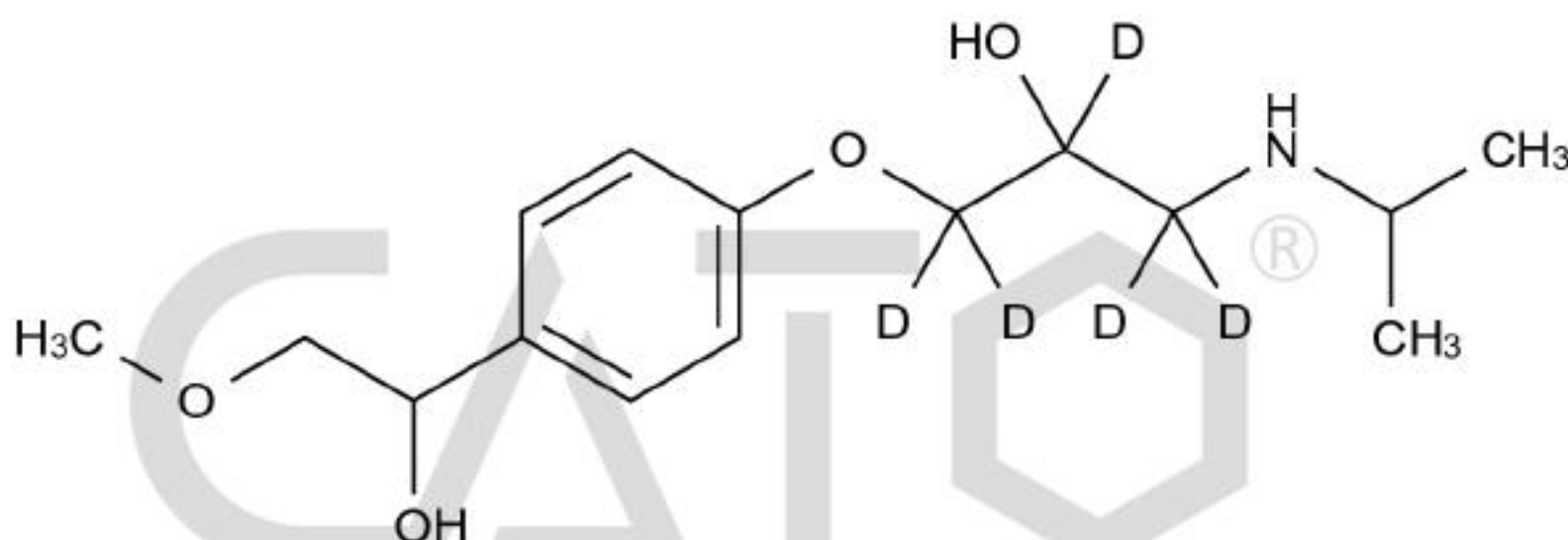


Certificate of Analysis

Reference Material & Standard

Product Name:	Alpha-Hydroxy Metoprolol-d5 (Mixture of Diastereomers)	Catalogue Number:	CCAD304321
Synonyms:	N/A	Lot Number:	1011-SA-7103
CAS Number:	1189934-03-9	Expiry Date:	Oct 10, 28
Molecular Formula:	C ₁₅ H ₂₀ D ₅ NO ₄	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	288.39		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White to Off-White Waxy Solid to Solid
Identification:	LC&HNMR	Confirmed
Purity:	HPLC	97.105%
Uncertainty		±2.0%

Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Yuki

Approved by General Manager:

David

Date: Oct 11, 24

Date: Oct 11, 24

Date: Oct 11, 24



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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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	Oct 11, 24	First release.

