



CERTIFICATE OF ANALYSIS

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1. Identification

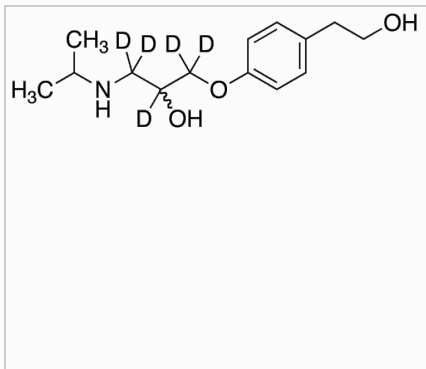
Catalogue Number: D292072

CAS Number: 1189981-81-4

Product: O-Desmethyl Metoprolol-d5

Synonym: 4-[2-Hydroxy-3-[(1-methylethyl)amino]propoxy]-benzeneethanol-d5;

Structure:



Molecular Formula:

C₁₄H₁₈D₅NO₃

Molecular weight:

258.37

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 4-RUS-45-1

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: 4°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	98.7%
Specific Rotation	Report Result	-0.3° (c = 0.1, Chloroform)
Elemental Analysis	Conforms	%C: 64.90, %H: 9.03, %N: 5.30

Additional Information:

Elemental Analysis: (Theoretical) %C: 65.08, %H: 8.98, %N: 5.42
Normalized Intensity: d0 = 0.00%, d1 = 0.01%, d2 = 0.02%, d3 = 0.04%, d4 = 6.24%, d5 = 93.69%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	My Nguyen	9/23/2020	9/21/2030