



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

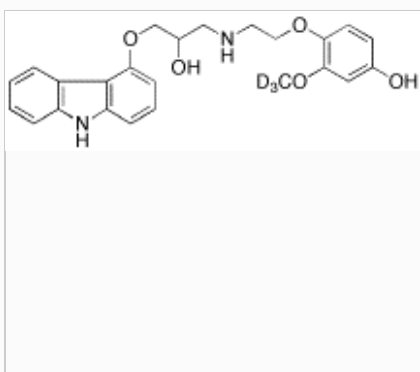
Catalogue Number: H949121

CAS Number: 1189675-28-2

Product: 4'-Hydroxyphenyl Carvedilol-d3

Synonym: 4-[2-[[3-(9H-Carbazol-4-yloxy)-2-hydroxypropyl]amino]ethoxy]-3-(methoxy-d3)phenol; 4-Hydroxycarvedilol-d3; BM 140686-d3; BM 14686-d3;

Structure:



Molecular Formula:

C₂₄H₂₃D₃N₂O₅

Molecular weight:

425.49

Source of Product:

Synthetic

Solubility:

Methanol (Slightly, Heated, Sonicated)

Lot Number: 6-ANR-97-1

Purity: 96%

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

Storage Condition: -20°C

2. Warning

Warning 1: Not Determined

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Light Brown Solid	Light Brown Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 65.35, %H: 6.05, %N: 6.36
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	0.0° (c = 0.2, Methanol)
Isotopic Purity	>95%	>99.9%
HPLC Purity	>95%	97.46% (245 nm)

Additional Information: Elemental Analysis: (Theoretical) %C: 67.75, %H: 6.16, %N: 6.58
Normalized Intensity: d0 = 0.00%, d1 = 0.00%, d2 = 0.00%, d3 = 100.00%

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
Nicole Yip	Toni Rantanen	My Nguyen	9/25/2020	9/23/2030