



CERTIFICATE OF ANALYSIS

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1. Identification

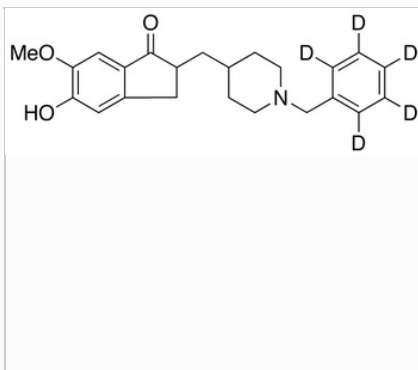
Catalogue Number: D292012

CAS Number: 1189929-21-2

Product: 5-O-Desmethyl Donepezil-d5

Synonym: 1-(Benzyl-d5)-4-[(5-hydroxy-6-methoxy-1-oxo-indan-2-yl)methyl]piperidine;

Structure:



Molecular Formula:

C₂₃H₂₂D₅NO₃

Molecular weight:

370.50

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly,
Sonicated), Methanol (Slightly)

Lot Number: 1-JUZ-48-3

Purity: 98%

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 Off-White Solid	White Solid
Elemental Analysis	Conforms	%C: 74.31, %H: 7.41, %N: 3.77
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.0%
NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	-0.2° (c = 0.1, Chloroform)
HPLC Purity	>95%	98.83% (210 nm)

Additional Information:

TLC Conditions: SiO₂; Dichloromethane : Methanol : Ammonium Hydroxide = 9 : 1 : 0.1; Visualized with UV and AMCS; Single Spot, R_f = 0.50. Elemental Analysis: (Theoretical) %C: 74.56, %H: 7.35, %N: 3.78. Normalized Intensity: d₀ = 0.01%, d₁ = 0.01%, d₂ = 0.01%, d₃ = 0.06%, d₄ = 4.60%, d₅ = 95.32%

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
Eric Beaton	Toni Rantanen	My Nguyen	3/13/2020	3/11/2030
				