



CERTIFICATE OF ANALYSIS

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1. Identification

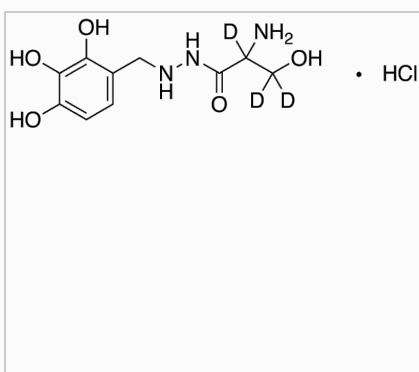
Catalogue Number: B120502

CAS Number: NA

Product: Benserazide-d3 Hydrochloride

Synonym: DL-Serine 2-[(2,3,4-Trihydroxyphenyl)methyl]hydrazide-d3 Hydrochloride; DL-Serine N2-(2,3,4-trihydroxybenzyl)hydrazide-d3 Hydrochloride; N-(DL-Seryl)-N'-(2,3,4-trihydroxybenzyl)hydrazine-d3 Hydrochloride; Ro-4-4602-d3;

Structure:



Molecular Formula:

$C_{10}H_{12}D_3N_3O_5 \cdot HCl$

Molecular weight:

260.26 + 36.46

Source of Product:

Synthetic

Solubility:

DMSO (Slightly), Methanol (Slightly), Water (Slightly)

Lot Number: 22-JQW-23-1

Purity: 93%

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

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Light Beige to Grey Solid	Light Grey to Grey Solid
Chloride Content	Report Result	11.2%
MS	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 38.80, %H: 5.57, %N: 13.31
HPLC Purity	Report Result	93.55% (205 nm)
Isotopic Purity	>95%	98.7%
Specific Rotation	Report Result	-0.2° (c = 0.1, Methanol)
NMR	Conforms to Structure	Conforms
Water Content	Report Result	~4.1% based on Elemental Analysis

Additional Information:

Normalized Intensity: d0 = 0.11%, d1 = 0.05%, d2 = 3.37%, d3 = 96.48%

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. 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	Chanell Chu	5/31/2022	5/29/2026
				