



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

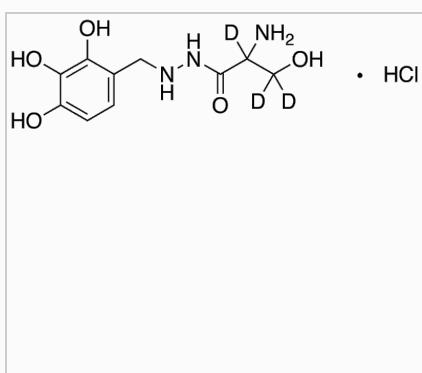
1. Identification

Catalogue Number: B120502

CAS Number: NA

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:

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

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 ± 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 |