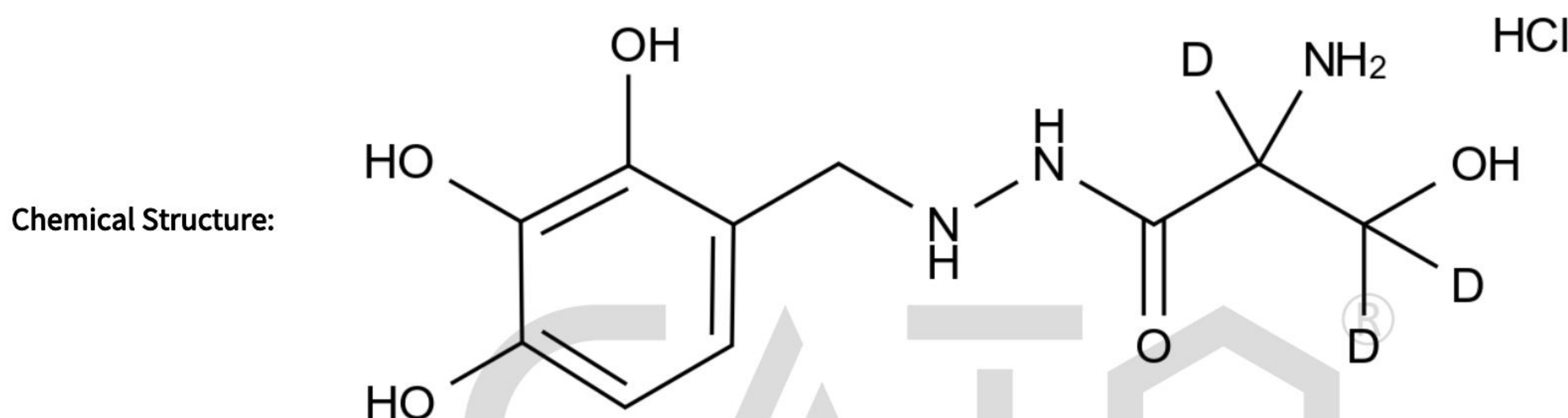


# Certificate of Analysis

## Reference Material

|                    |                                                                                  |                   |                                           |
|--------------------|----------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Benserazide-d3 Hydrochloride                                                     | Catalogue Number: | C4X-142717                                |
| Chemical Name:     | N/A                                                                              | Lot Number:       | 0906-RD-0041                              |
| CAS Number:        | N/A                                                                              | Expiry Date:      | May 29, 2026                              |
| Molecular Formula: | C <sub>10</sub> H <sub>12</sub> D <sub>3</sub> N <sub>3</sub> O <sub>5</sub> HCl | Storage:          | -20°C±5°C Protected from light and Sealed |
| Molecular Weight:  | 260.26 36.46                                                                     |                   |                                           |



| Test Items      | Method             | Results                  |
|-----------------|--------------------|--------------------------|
| Appearance      | Visual inspection  | Light Grey to Grey Solid |
| Identification  | LCMS&HNMR          | Confirmed                |
| Chemical Purity | HPLC               | 93.53%                   |
| Isotopic Purity |                    | 98.7%                    |
| Water Content   | Elemental Analysis | 4.1%                     |
| Assay           |                    | 89.7%                    |

## Comment:

1. Chloride Content: 11.2%
2. The calculation of the 100% method follows the formula (calculated on the non-dried basis):  

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$
 Water Content is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Hinlam*

Reviewed by:

*Xenia*

Aporoved by General manager:

*David*

Date: May 20, 2022

Date: Sep 09, 2022

Date: Sep 09, 2022

