



## CERTIFICATE OF ANALYSIS

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### 1. Identification

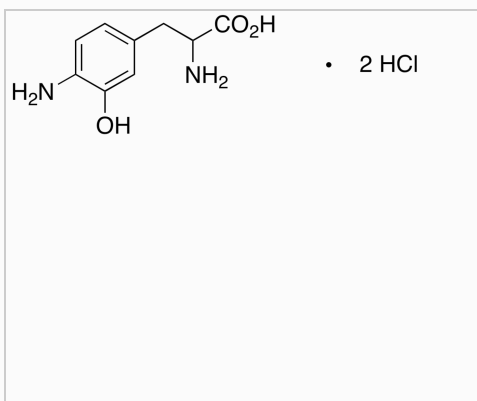
**Catalogue Number:** A632020

**CAS Number:** 21819-90-9

**Product:** rac 4-Amino-m-tyrosine Dihydrochloride

**Synonym:** 4-Amino-3-hydroxyphenylalanine Dihydrochloride;

**Structure:**



**Molecular Formula:**

$C_9H_{14}Cl_2N_2O_3$

**Molecular weight:**

196.21 + 2(36.46)

**Source of Product:**

Synthetic

**Solubility:**

DMSO (Slightly), Methanol (Slightly, Heated and Sonicated), Water (Slightly)

**Lot Number:** 8-ATH-166-1

**Purity:** 97%

**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         | Off-White to Light Beige Solid | Light Beige Solid              |
| NMR                | Conforms to Structure          | Conforms                       |
| Elemental Analysis | Conforms                       | %C: 39.65, %H: 5.12, %N: 10.17 |
| HPLC Purity        | Report Result                  | 97.10% (205 nm)                |
| MS                 | Conforms to Structure          | Conforms                       |
| Specific Rotation  | Report Result                  | -0.5° (c = 0.5, DMSO)          |

**Additional Information:** N/A

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        | 12/22/2021 | 12/20/2025  |