

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: G388502 CAS Number: 1505505-87-2

Synonym: 1-(Carboxymethyl)pyridinium-d6 Chloride

Hydrazide; 1-(2-Hydrazino-2-

oxoethyl)pyridinium-d5 Chloride; Girard-P

Reagent-d5; Girard's P Reagent-d5; (Pyridinio-d5)acetohydrazide Chloride;

Molecular Formula:

C7H5D5ClN3O

Molecular weight:

192.66

Source of Product:

Synthetic **Solubility:**

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

Purity: 07%

9/%

Storage Condition: 4°C

Product:

Structure:

Girard's Reagent P-d5

1-YTY-153-3

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

2. Warning

Lot

Number:

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Appearance White to Off-White Solid White to Off-White Solid

NMR Conforms to Structure Conforms
MS Conforms to Structure Conforms
Isotopic Purity >95% 99.1%

HPLC Purity Report Result 99.24% (260 nm)

Elemental Analysis Conforms %C: 39.74, %H: 5.73, %N: 21.31 Water Content Report Result ~8.9% based on Elemental Analysis

Additional Information: Normalized Intensity: d0 = 0.01%, d1 = 0.01%, d2 = 0.02%, d3 = 0.00%

0.21%, d4 = 4.09%, d5 = 95.66%

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 Test Date Retest Date

Evan Burns Toni Rantanen Chanell Chu 6/24/2022 6/22/2026

Fivan Burns

histo.