

# **Certificate of Analysis**

# N1-Azido-spermine (trihydrochloride)

Cat. No.: HY-151717 CAS No.: 1823475-98-4 Batch No.: 275343

**Chemical Name:** 1,4-Butanediamine, N1-(3-aminopropyl)-N4-(3-azidopropyl)-, hydrochloride (1:3)

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:  $C_{10}H_{27}Cl_3N_6$ Molecular Weight: 337.72

Storage: 4°C, sealed storage, away from moisture

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

**Chemical Structure:** 

## **ANALYTICAL DATA**

Appearance: White to off-white (Solid) <sup>1</sup>H NMR Spectrum: Consistent with structure MS: Consistent with structure

Purity (NMR): ≥98.0%

The product has been tested and complies with the given specifications. Conclusion:

Caution: Product has not been fully validated for medical applications. For research use only.

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