

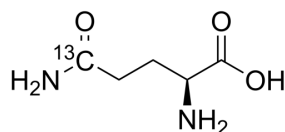
## L-Glutamine-5-<sup>13</sup>C

Cat. No.: HY-N0390S4  
 CAS No.: 159680-32-7  
 Batch No.: 254860  
 Chemical Name: L-Glutamine-5-<sup>13</sup>C

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: C<sub>4</sub><sup>13</sup>CH<sub>10</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 147.14  
 Storage: Powder -20°C 3 years  
 In solvent -80°C 6 months  
 -20°C 1 month

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%  
 Isotopic Enrichment: 98.6%  
 Conclusion: The product has been tested and complies with the given specifications.

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

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