

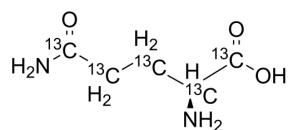
## L-Glutamine-<sup>13</sup>C<sub>5</sub>

Cat. No.: HY-N0390S1  
 CAS No.: 184161-19-1  
 Batch No.: 156637  
 Chemical Name: L-Glutamine-1,2,3,4,5-<sup>13</sup>C<sub>5</sub>

### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula: <sup>13</sup>C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 151.11  
 Storage: Powder      -20°C    3 years  
                                   4°C      2 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  
 LCMS: Consistent with structure  
 Purity (NMR): ≥98.0%  
 Isotopic Enrichment: 99.2%  
 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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