

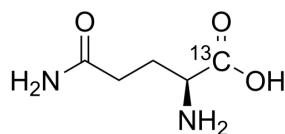
## L-Glutamine-1-<sup>13</sup>C

Cat. No.: HY-N0390S5  
CAS No.: 159663-16-8  
Batch No.: 236022  
Chemical Name: L-Glutamine-1-<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  
                              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  
MS: Consistent with structure  
Purity (NMR): ≥98.0%  
Isotopic Enrichment: 99.80%  
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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA