

**1. Identification**Catalogue Number

G597001

Lot Number

712208513-1-1

Product Name

L-Glutamine-13C5

Synonyms

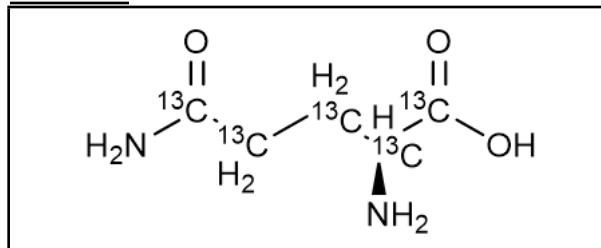
(S)-2,5-Diamino-5-oxopentanoic Acid-13C5 ; 2-Aminoglutaramic Acid-13C5 ; Acustasin-13C5 ; Aesgen 14-13C5 ; Cebrogen-13C5 ; Glumin-13C5 ; L-2-Aminoglutaramidic Acid-13C5 ; L-Glutamic Acid γ-Amide-13C5 ; Levoglutaride-13C5 ; NSC 27421-13C5 ; Saforis-13C5 ; Stimulina-13C5 ; γ-Glutamine-13C5 ;

CAS Number

184161-19-1

Solubility

Aqueous Acid (Slightly), Water (Slightly)

StructureShipping Condition

This Product Is Stable To Be Shipped At Room Temperature

Molecular Formula $^{13}\text{C}_5\text{H}_{10}\text{N}_2\text{O}_3$ Source of Product

N/A

Long Term Storage Conditions

4°C

Molecular Weight

151.11

Purity

&gt;95%

**2. Warnings**

Not Determined

**3. Analytical Information**

<u>Tests</u>	<u>Specifications</u>	<u>Results</u>
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 39.82, %H: 6.61, %N: 18.43
HPLC Purity	>95%	99.95% (ELSD)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.2%
Specific Rotation	Report Result	+4.2° (c = 0.2, Water)

Additional InformationNormalized Intensity:  $^{13}\text{C}_0$  = 0.00%,  $^{13}\text{C}_1$  = 0.03%,  $^{13}\text{C}_2$  = 0.05%,  $^{13}\text{C}_3$  = 0.07%,  $^{13}\text{C}_4$  = 3.77%,  $^{13}\text{C}_5$  = 96.09%

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**

<u>Reviewed by</u>	<u>Reviewed by</u>	<u>C of A Approved by</u>	<u>Test Date</u>	<u>Retest Date</u>
			4/10/2025	4/8/2029
Nicole Yip	Toni Rantanen	Chanell Chu		
Product Quality Specialist	Manager, Quality Assurance	Quality Assurance Associate		