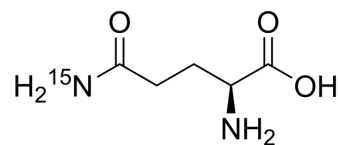


L-Glutamine-¹⁵N-1

Cat. No.:	HY-N0390S9		
CAS No.:	59681-32-2		
Molecular Formula:	C ₅ H ₁₀ N ¹⁵ NO ₃		
Molecular Weight:	147.14		
Target:	mGluR; Ferroptosis; Endogenous Metabolite		
Pathway:	GPCR/G Protein; Neuronal Signaling; Apoptosis; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (169.91 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	6.7962 mL	33.9812 mL	67.9625 mL
	5 mM	1.3592 mL	6.7962 mL	13.5925 mL
	10 mM	0.6796 mL	3.3981 mL	6.7962 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (84.95 mM); Clear solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	L-Glutamine- ¹⁵ N-1 is the ¹⁵ N-labeled L-Glutamine. L-Glutamine (L-Glutamic acid 5-amide) is a non-essential amino acid present abundantly throughout the body and involved in many metabolic processes. L-Glutamine provides a source of carbons for oxidation in some cells[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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