Screening Libraries

Inhibitors

Product Data Sheet



L-Glutamine-1-13C

Cat. No.: HY-N0390S5 CAS No.: 159663-16-8 Molecular Formula: $C_4^{13}CH_{10}N_2O_3$

Molecular Weight: 147.14

Target: mGluR; Ferroptosis; Endogenous Metabolite

Pathway: GPCR/G Protein; Neuronal Signaling; Apoptosis; Metabolic Enzyme/Protease

-20°C Storage: Powder 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: $\geq 4.81 \text{ mg/mL} (32.69 \text{ mM})$

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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.

BIOLOGICAL ACTIVITY

 $\hbox{L-Glutamine-1-13C is the 13C-labeled L-Glutamine. L-Glutamine (L-Glutamic acid 5-amide) is a non-essential amino acid and acid acid 5-amide. The second content is a content of the content$ Description 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].

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

In Vitro

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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