Inhibitors

L-Glutamine-13C5

Cat. No.: HY-N0390S1 CAS No.: 184161-19-1 Molecular Formula: ${}^{13}C_{5}H_{10}N_{2}O_{3}$ Molecular Weight: 151.11

Target: mGluR; Ferroptosis; Endogenous Metabolite

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

-20°C Storage: Powder 3 years

> 4°C 2 years -80°C In solvent 6 months -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 31.25 mg/mL (206.80 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	6.6177 mL	33.0885 mL	66.1770 mL
	5 mM	1.3235 mL	6.6177 mL	13.2354 mL
	10 mM	0.6618 mL	3.3088 mL	6.6177 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS

Solubility: 16.67 mg/mL (110.32 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

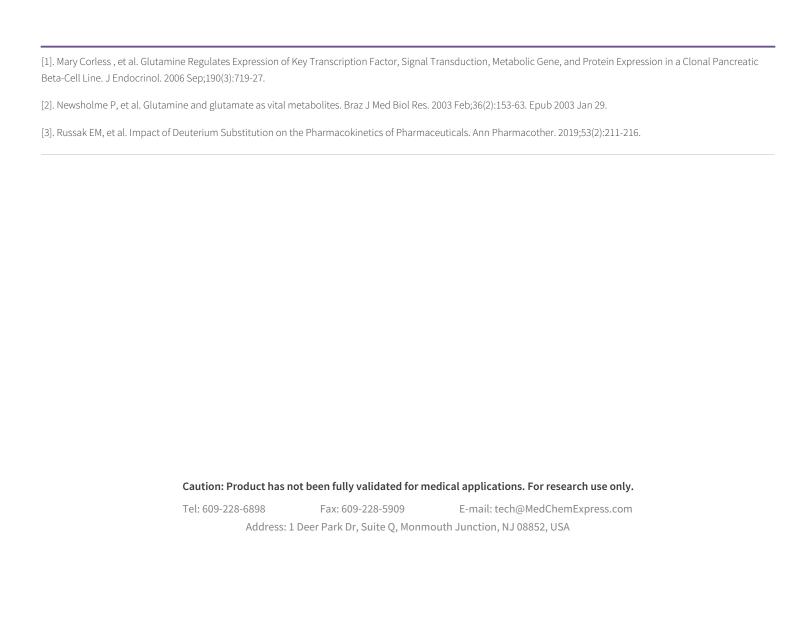
Description $L\text{-}Glutamine-{}^{13}\text{C}_5 \text{ is the } {}^{13}\text{C-labeled L-}Glutamine. \\ L\text{-}Glutamine (L\text{-}Glutamic acid 5-amide) is a non-essential amino acid 5-amide) and the second s$ present abundantly throughout the body and involved in many metabolic processes. L-Glutamine 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



Page 2 of 2 www.MedChemExpress.com