

L-Leucine-1-13C

Chemical Properties

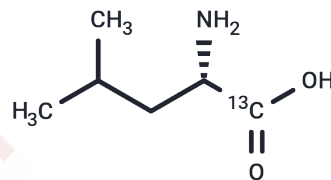
CAS No. : 74292-94-7

Formula: C₆H₁₃NO₂

Molecular Weight: 132.17

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	L-Leucine-1-13C is a 13C-labeled L-Leucine (T302749) that significantly enhances the affinity of GLP-4.
Targets(IC50)	Endogenous Metabolite,mTOR

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) H ₂ O: 13.1 mg/mL (99.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.566 mL	37.8301 mL	75.6601 mL
5 mM	1.5132 mL	7.566 mL	15.132 mL
10 mM	0.7566 mL	3.783 mL	7.566 mL
50 mM	0.1513 mL	0.7566 mL	1.5132 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Baoshan Xu, et al. Stimulation of mTORC1 with L-leucine rescues defects associated with Roberts syndrome. *PLoS Genet.* 2013;9(10):e1003857.

Bruckbauer A, et al. Synergistic effects of leucine and resveratrol on insulin sensitivity and fat metabolism in adipocytes and mice. *Nutr Metab (Lond).* 2012 Aug 22;9(1):77.

Rachdi L, et al. L-leucine alters pancreatic β -cell differentiation and function via the mTor signaling pathway. *Diabetes.* 2012 Feb;61(2):409-17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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