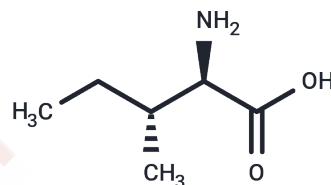


D-Isoleucine

Chemical Properties

CAS No. :	319-78-8
Formula:	C ₆ H ₁₃ NO ₂
Molecular Weight:	131.17
Storage:	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	D-Isoleucine ((2R,3R)-2-Amino-3-methylpentanoic acid) is a selective activator of Asc-1 antiporter, which enhances long-term potentiation at the hippocampal CA1-CA3 via release of endogenous D-serine.
Targets(IC50)	Others,ASCT

Solubility Information

Solubility	DMSO: 55 mg/mL (419.3 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	7.6237 mL	38.1185 mL	76.2369 mL
5 mM	1.5247 mL	7.6237 mL	15.2474 mL
10 mM	0.7624 mL	3.8118 mL	7.6237 mL
50 mM	0.1525 mL	0.7624 mL	1.5247 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

Rosenberg D, et, al. Neuronal D-serine and glycine release via the Asc-1 transporter regulates NMDA receptor-dependent synaptic activity. J Neurosci. 2013 Feb 20;33(8):3533-44.

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