

D-Leucine

Chemical Properties

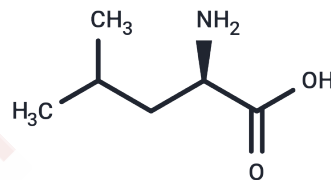
CAS No. : 328-38-1

Formula: C₆H₁₃NO₂

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-Leucine ((R)-Leucine) potently terminates seizures even after the onset of seizure activity. D-leucine reduces long-term potentiation but had no effect on basal synaptic transmission in vitro.
Targets(IC50)	Endogenous Metabolite
In vitro	D-Leucine failed to compete for binding by cognate ligands in a screen of candidate neuronal receptors, potentially suggesting a novel target. D-Leucine suppressed ongoing seizures at least as effectively as diazepam even at low doses, but without sedative effects. These studies raise the possibility that D-Leucine may represent a new class of anti-seizure agents, and that D-Leucine may have a previously unknown function in eukaryotes[1].

Solubility Information

Solubility	DMSO: < 1 mg/mL (< 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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