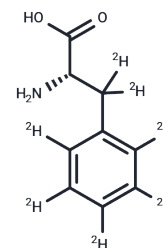


L-Phenylalanine-D7

Chemical Properties

CAS No. :	69113-60-6
Formula:	C ₉ H ₁₁ NO ₂
Molecular Weight:	172.23
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	L-Phenylalanine-D7 is the deuterated form of L-Phenylalanine. L-Phenylalanine (T3377) ((S)-2-Amino-3-phenylpropionic acid) is an essential amino acid isolated from Escherichia coli. It acts as a voltage-dependent $\alpha_2\delta$ subunit Ca ²⁺ channel antagonist with a K _i of 980 nM. Additionally, L-Phenylalanine (T3377) is a competitive antagonist at the glycine and glutamate binding sites of NMDARs (K _B 573 μ M) and non-NMDARs. It is widely used in the production of food flavorings and pharmaceuticals.
Targets(IC50)	Calcium Channel,Endogenous Metabolite,iGluR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8062 mL	29.0309 mL	58.0619 mL
5 mM	1.1612 mL	5.8062 mL	11.6124 mL
10 mM	0.5806 mL	2.9031 mL	5.8062 mL
50 mM	0.1161 mL	0.5806 mL	1.1612 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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