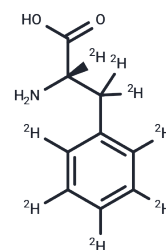


L-Phenylalanine-D8

Chemical Properties

CAS No. :	17942-32-4
Formula:	C ₉ H ₁₁ NO ₂
Molecular Weight:	173.24
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-D8 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 calcium 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. This compound is widely utilized in the production of food flavorings and pharmaceuticals.
Targets(IC50)	Calcium Channel,Endogenous Metabolite,iGluR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7723 mL	28.8617 mL	57.7234 mL
5 mM	1.1545 mL	5.7723 mL	11.5447 mL
10 mM	0.5772 mL	2.8862 mL	5.7723 mL
50 mM	0.1154 mL	0.5772 mL	1.1545 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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