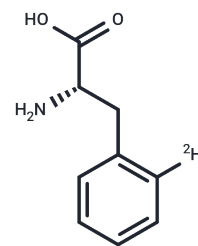


L-Phenylalanine-D1

Chemical Properties

CAS No. :	54793-54-3
Formula:	C ₉ H ₁₁ NO ₂
Molecular Weight:	166.20
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-D1 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, it serves as a competitive antagonist at glycine and glutamate binding sites of NMDARs (K _B 573 μ M) and non-NMDARs. L-Phenylalanine (T3377) is extensively utilized in the production of food flavorings and pharmaceuticals.
Targets(IC50)	Calcium Channel,Endogenous Metabolite,iGluR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0168 mL	30.0842 mL	60.1685 mL
5 mM	1.2034 mL	6.0168 mL	12.0337 mL
10 mM	0.6017 mL	3.0084 mL	6.0168 mL
50 mM	0.1203 mL	0.6017 mL	1.2034 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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