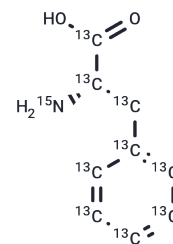


L-Phenylalanine-13C9,15N

Chemical Properties

CAS No. :	878339-23-2
Formula:	C ₉ H ₁₁ NO ₂
Molecular Weight:	175.12
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-13C9,15N is an isotopically labeled form of L-Phenylalanine ((S)-2-Amino-3-phenylpropionic acid) with both 13C and 15N labels. L-Phenylalanine (TMIM-00048) is an essential amino acid derived from Escherichia coli and acts as a voltage-dependent Ca ²⁺ channel antagonist targeting the $\alpha_2\delta$ subunit with a K _i of 980 nM. Additionally, it serves as a competitive antagonist at glycine and glutamate binding sites of both NMDARs (K _B 573 μ M) and non-NMDARs. This compound 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	5.7104 mL	28.5519 mL	57.1037 mL
5 mM	1.1421 mL	5.7104 mL	11.4207 mL
10 mM	0.571 mL	2.8552 mL	5.7104 mL
50 mM	0.1142 mL	0.571 mL	1.1421 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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