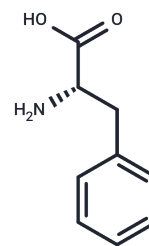


L-Phenylalanine

Chemical Properties

CAS No. :	63-91-2
Formula:	C ₉ H ₁₁ NO ₂
Molecular Weight:	165.19
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	L-Phenylalanine (3-Phenyl-L-alanine) is an essential amino acid and the precursor of the amino acid tyrosine, acts as an antagonist at $\alpha 2\delta$ calcium channels.
Targets(IC50)	Calcium Channel,Endogenous Metabolite,iGluR

Solubility Information

Solubility	DMSO: insoluble H ₂ O: 6.67 mg/mL (40.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.0536 mL	30.2682 mL	60.5364 mL
5 mM	1.2107 mL	6.0536 mL	12.1073 mL
10 mM	0.6054 mL	3.0268 mL	6.0536 mL
50 mM	0.1211 mL	0.6054 mL	1.2107 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.

Reference

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- Glushakov, A.V., et al., L-phenylalanine selectively depresses currents at glutamatergic excitatory synapses. *J Neurosci Res*, 2003. 72(1): p. 116-24
- Glushakov, A.V., et al., Long-term changes in glutamatergic synaptic transmission in phenylketonuria. *Brain*, 2005. 128(Pt 2): p. 300-7.
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