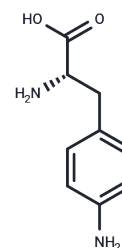


4-Amino-L-phenylalanine

Chemical Properties

CAS No. :	943-80-6
Formula:	C ₉ H ₁₂ N ₂ O ₂
Molecular Weight:	180.2
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	4-Amino-L-phenylalanine (4APhe) is a TcCA activator, useful for studying protozoan pathogen infections.
Targets(IC50)	Endogenous Metabolite
In vitro	4-Amino-L-phenylalanine is the activator of Trypanosoma Cruzi (TcCA), with an activation constant in the range of 0.38-0.83 μ M. [1]

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble) H ₂ O: 1 mg/mL (5.55 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	5.5494 mL	27.7469 mL	55.4939 mL
5 mM	1.1099 mL	5.5494 mL	11.0988 mL
10 mM	0.5549 mL	2.7747 mL	5.5494 mL
50 mM	0.111 mL	0.5549 mL	1.1099 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.

Reference

Angeli A, et al. Activation studies with amines and amino acids of the α -carbonic anhydrase from the pathogenic protozoan Trypanosoma cruzi. Bioorg Med Chem. 2018 Aug 7;26(14):4187-4190.

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