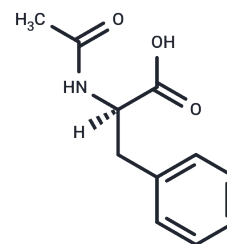


N-Acetyl-L-phenylalanine

Chemical Properties

CAS No. :	2018-61-3
Formula:	C ₁₁ H ₁₃ NO ₃
Molecular Weight:	207.23
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	N-Acetyl-L-phenylalanine (N-Ac-Phenylalanine) is an essential amino acid produced for medical, feed, and nutritional applications. It appears in large amount in urine of patients with phenylketonuria which is a human genetic disorder due to the lack of phenylalanine hydroxylase, the enzyme necessary to metabolize phenylalanine to tyrosine. Acetylphenylalanine is a product of enzyme phenylalanine N-acetyltransferase in the pathway phenylalanine metabolism.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (1206.39 mM),Sonication is recommended. Ethanol: 20 mg/mL (96.51 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.65 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8256 mL	24.1278 mL	48.2556 mL
5 mM	0.9651 mL	4.8256 mL	9.6511 mL
10 mM	0.4826 mL	2.4128 mL	4.8256 mL
50 mM	0.0965 mL	0.4826 mL	0.9651 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

Kucerova Z, et al. Aromatic amino acids and their derivatives as ligands for the isolation of aspartic proteinases. J Chromatogr B Analyt Technol Biomed Life Sci. 2002 Apr 25;770(1-2):121-8.

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