Data Sheet (Cat.No.T8053)

TargetMol

N-Acetyl-L-arginine

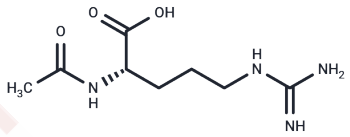
Chemical Properties

CAS No. : 155-84-0

Formula: C8H16N4O3

Molecular Weight: 216.24

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	N-Acetyl-L-arginine (Ac-Arg-OH), an N-acyl-L-alpha-amino acid with a strong basic nature (based on its pKa), has elevated serum levels in hyperargininemic patients and is associated with several diseases, including uremia and colorectal cancer. In untreated hyperargininemic patients, it reaches its highest levels in cerebrospinal fluid. It has also been detected in apples and loquats, suggesting it could be a potential biomarker for consumption of these foods. Additionally, a low-arginine diet combined with sodium benzoate therapy leads to a marked decrease in plasma N-acetyl-L-arginine concentrations.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 11 mg/mL (50.87 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: 1 mg/mL (4.62 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6245 mL	23.1225 mL	46.2449 mL
5 mM	0.9249 mL	4.6245 mL	9.249 mL
10 mM	0.4624 mL	2.3122 mL	4.6245 mL
50 mM	0.0925 mL	0.4624 mL	0.9249 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

De Deyn PP, et al. Serum guanidino compound levels in uremic pediatric patients treated with hemodialysis or continuous cycle peritoneal dialysis. Correlations between nerve conduction velocities and altered guanidino compound concentrations. Nephron. 1995;69(4):411-7.