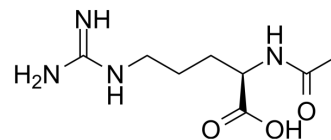


N-Acetyl-L-arginine

Cat. No.:	HY-W014130		
CAS No.:	155-84-0		
Molecular Formula:	C ₈ H ₁₆ N ₄ O ₃		
Molecular Weight:	216.24		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (231.22 mM; Need ultrasonic)
 DMSO : 14.29 mg/mL (66.08 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.6245 mL	23.1225 mL	46.2449 mL
	5 mM		0.9249 mL	4.6245 mL	9.2490 mL
	10 mM		0.4624 mL	2.3122 mL	4.6245 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 130 mg/mL (601.18 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.43 mg/mL (6.61 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.43 mg/mL (6.61 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.43 mg/mL (6.61 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetyl-L-arginine (Ac-Arg-OH) is one of the guanidino compounds found elevated in the serum of an hemodialyzed renal insufficient (uremic) pediatric population.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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