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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

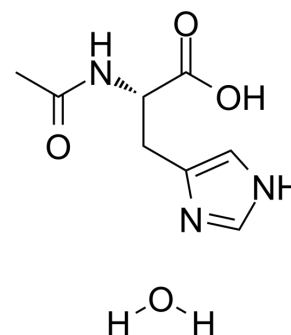
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

N-Acetyl-L-histidine monohydrate

Cat. No.:	HY-W014180		
CAS No.:	39145-52-3		
Molecular Formula:	C ₈ H ₁₃ N ₃ O ₄		
Molecular Weight:	215.21		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 62.5 mg/mL (290.41 mM; ultrasonic and warming and heat to 60°C)
 DMSO : 20 mg/mL (92.93 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		4.6466 mL	23.2331 mL	46.4662 mL
	5 mM		0.9293 mL	4.6466 mL	9.2932 mL
	10 mM		0.4647 mL	2.3233 mL	4.6466 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 12.5 mg/mL (58.08 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2 mg/mL (9.29 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2 mg/mL (9.29 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (9.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetyl-L-histidine monohydrate, a histidine derivative, is a prominent biomolecule in brain, retina and lens of poikilothermic vertebrates. N-Acetyl-L-histidine monohydrate has a role as an animal metabolite^[1].

In Vitro

N-Acetyl-L-histidine monohydrate (NAH) also exhibits a strong phylogenetic component in that it is a major osmolyte in the

brain and eye of teleost (bony) fish, amphibians and reptiles, but is present in much lower amounts in brain and other tissues of homeothermic (endothermic) vertebrates^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Morris H Baslow, et al. N-acetyl-L-histidine, a Prominent Biomolecule in Brain and Eye of Poikilothermic Vertebrates. *Biomolecules*. 2015 Apr 24;5(2):635-46.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA