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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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N-Acetyl-L-histidine monohydrate

Cat. No.: HY-W014180

CAS No.: 39145-52-3

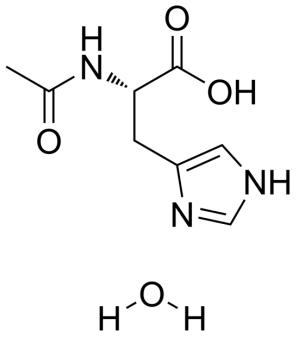
Molecular Formula: $C_8H_{13}N_3O_4$

Molecular Weight: 215.21

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 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	Concentration / Solvent / Mass	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

1. Add each solvent one by one: PBS
   Solubility: 12.5 mg/mL (58.08 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2 mg/mL (9.29 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2 mg/mL (9.29 mM); Clear solution
4. 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.

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