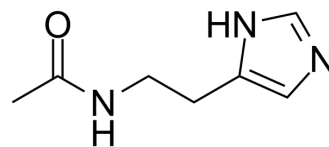


N-Acetylhistamine

Cat. No.:	HY-112175		
CAS No.:	673-49-4		
Molecular Formula:	C ₇ H ₁₁ N ₃ O		
Molecular Weight:	153.18		
Target:	Histamine Receptor; Endogenous Metabolite		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; 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

DMSO : ≥ 100 mg/mL (652.83 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5283 mL	32.6413 mL	65.2827 mL
	5 mM	1.3057 mL	6.5283 mL	13.0565 mL
	10 mM	0.6528 mL	3.2641 mL	6.5283 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (16.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Acetylhistamine is a histamine metabolite. N-acetylhistamine can be used as a potential biomarker of histidine metabolism for anaphylactoid reactions.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

N-Acetylhistamine is an important indice for anaphylactoid reactions^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Microbiome. 2019 Mar 20;7(1):43.
- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

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REFERENCES

[1]. Xu Y, et al. Metabolomics analysis of anaphylactoid reaction reveals its mechanism in a rat model. Asian Pac J Allergy Immunol. 2017 Dec;35(4):224-232.

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

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