Histamine

®

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Cat. No.:	HY-B1204	
CAS No.:	51-45-6	
Molecular Formula:	C ₅ H ₉ N ₃	N-
Molecular Weight:	111.15	« II .
Target:	Histamine Receptor; Endogenous Metabolite	N
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease	Н
Storage:	-20°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 34 mg/mL (305.89 mM) * "≥" means soluble, but saturation unknown.					
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	8.9969 mL	44.9843 mL	89.9685 mL	
		5 mM	1.7994 mL	8.9969 mL	17.9937 mL	
		10 mM	0.8997 mL	4.4984 mL	8.9969 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent Solubility: 100 mg	one by one: PBS ;/mL (899.69 mM); Clear solution; New	ed ultrasonic			

biological Activity				
Description	Histamine is an organic nitrogenous compound involved in local immune responses as well as regulating physiological function in the gut and acting as a neurotransmitter.			
IC ₅₀ & Target	Human Endogenous Metabolite			
In Vivo	Histamine can be used in animal modeling to construct gastrointestinal ulcer models. After intravenous injection of histamine hydrochloride, the maximum concentration and AUC of histamine in liver and liver tumor tissues were higher than those in subcutaneous tissue ^[1] .			

NH₂



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

CUSTOMER VALIDATION

- Cancer Cell. 2022 Sep 1;S1535-6108(22)00378-6.
- Adv Sci (Weinh). 2023 Jan 15;e2203869.
- Br J Pharmacol. 2021 Jan 27.
- Mbio. 2022 Aug 24;e0200422.
- Front Pharmacol. 2019 Nov 15;10:1380.

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REFERENCES

[1]. Rizell M, Naredi P, Lindnér P, Hellstrand K, Sarno M, Jansson PA. Histamine pharmacokinetics in tumor and host tissues after bolus-dose administration in the rat. Life Sci. 2002 Jan 11;70(8):969-76.

[2]. Okabe S, et al. Effects of cimetidine, a histamine H2-receptor antagonist, on various experimental gastric and duodenal ulcers. Am J Dig Dis. 1977 Aug;22(8):677-84.

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

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