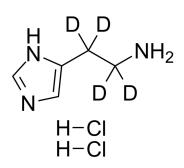
Product Data Sheet

$Histamine-\alpha,\alpha,\beta,\beta-d_4\,dihydrochloride$

MedChemExpress

Cat. No.:	HY-B1204S				
CAS No.:	344299-48-5				
Molecular Formula:	C ₅ H ₇ D ₄ Cl ₂ N ₃				
Molecular Weight:	188.09				
Target:	Histamine Receptor; Endogenous Metabolite				
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease				
Storage:	Powder	-20°C 4°C	3 years 2 years		
	In solvent	-80°C -20°C	6 months 1 month		



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (132.92 mM; Need ultrasonic) DMSO : 25 mg/mL (132.92 mM; Need ultrasonic)							
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	5.3166 mL	26.5830 mL	53.1660 mL			
		5 mM	1.0633 mL	5.3166 mL	10.6332 mL			
		10 mM	0.5317 mL	2.6583 mL	5.3166 mL			
	Please refer to the solubility information to select the appropriate solvent.							
In Vivo	/ivo 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (13.29 mM); Clear solution							
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.29 mM); Clear solution							
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.29 mM); Clear solution						

BIOLOGICAL ACTIVITY					
Description	Histamine-α,α,β,β-d ₄ (dihydrochloride) is the deuterium labeled Histamine. 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.				
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to				



affect the pharmacokinetic and metabolic profiles of drugs^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

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