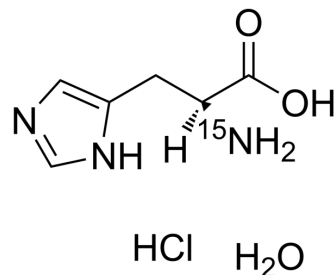


L-Histidine-¹⁵N hydrochloride hydrate

Cat. No.:	HY-W014423S6
Molecular Formula:	C ₆ H ₁₂ ClN ₂ ¹⁵ NO ₃
Molecular Weight:	210.62
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (593.49 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.7479 mL	23.7394 mL	47.4789 mL
	5 mM	0.9496 mL	4.7479 mL	9.4958 mL
	10 mM	0.4748 mL	2.3739 mL	4.7479 mL

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

BIOLOGICAL ACTIVITY

Description

L-Histidine-¹⁵N (hydrochloride hydrate) is the ¹⁵N-labeled L-Histidine hydrochloride hydrate. L-Histidine hydrochloride hydrate (H-His-OH.HCl.H₂O) is an endogenous metabolite.

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.

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