L-Arginine-d₇ hydrochloride

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target:	HY-N0455AS2 204244-77-9 C ₆ H ₈ D ₇ ClN ₄ O ₂ 217.71	HCI
Target: Pathway: Storage:	NO Synthase; Endogenous Metabolite Immunology/Inflammation; Metabolic Enzyme/Protease -20°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

Prep Stoc		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.5933 mL	22.9663 mL	45.9327 mL
		5 mM	0.9187 mL	4.5933 mL	9.1865 mL
		10 mM	0.4593 mL	2.2966 mL	4.5933 mL

BIOLOGICAL ACTIVITY			
Description	L-Arginine-d ₇ (hydrochloride) is the deuterium labeled L-Arginine hydrochloride. L-Arginine hydrochloride ((S)-(+)-Arginine hydrochloride) is the nitrogen donor for synthesis of nitric oxide, a potent vasodilator that is deficient during times of sickle cell crisis.		
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.

Product Data Sheet

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