Inhibitors

Product Data Sheet

L-Arginine-¹⁵N₄ hydrochloride

Cat. No.: HY-N0455AS1 CAS No.: 204633-95-4 $C_6H_{15}Cl^{15}N_4O_2$ Molecular Formula:

Molecular Weight: 214.64

Target: NO Synthase; Endogenous Metabolite; Isotope-Labeled Compounds Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease; Others

4°C, sealed storage, away from moisture Storage:

* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H₂O: 250 mg/mL (1164.74 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.6590 mL	23.2948 mL	46.5896 mL
	5 mM	0.9318 mL	4.6590 mL	9.3179 mL
	10 mM	0.4659 mL	2.3295 mL	4.6590 mL

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

BIOLOGICAL ACTIVITY

 $\hbox{L-Arginine-15N_4$ (hydrochloride) is the 15N-labeled L-Arginine hydrochloride. L-Arginine hydrochloride ((S)-(+)-Arginine hydrochloride) is the 15N-labeled L-Arginine hydrochloride.}$ Description

hydrochloride) is the nitrogen donor for synthesis of nitric oxide, a potent vasodilator that is deficient during times of sickle

cell crisis[1].

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].

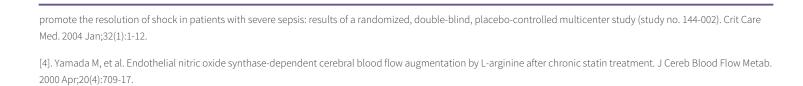
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. Tapiero H, et al. I. Arginine. Biomed Pharmacother. 2002 Nov;56(9):439-45.

[3]. Bakker J, et al. Administration of the nitric oxide synthase inhibitor NG-methyl-L-arginine hydrochloride (546C88) by intravenous infusion for up to 72 hours can



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

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