Proteins

Inhibitors

L-Arginine-¹³C₆, ¹⁵N₄ hydrochloride

Cat. No.: HY-N0455AS8 CAS No.: 202468-25-5 Molecular Formula: ¹³C₆H₁₅Cl¹⁵N₄O₂

Molecular Weight: 220.59

Target: NO Synthase; Endogenous Metabolite

Pathway: Immunology/Inflammation; Metabolic Enzyme/Protease

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

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

and light)

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 125 mg/mL (566.66 mM; Need ultrasonic) H₂O: 125 mg/mL (566.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.5333 mL	22.6665 mL	45.3330 mL
	5 mM	0.9067 mL	4.5333 mL	9.0666 mL
	10 mM	0.4533 mL	2.2666 mL	4.5333 mL

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

BIOLOGICAL ACTIVITY

 $\hbox{L-Arginine-13C}_6, \hbox{15N}_4 \ (hydrochloride) \ is the 13C- and 15N-labeled L-Arginine hydrochloride. L-Arginine hydrochloride ((S)-(+)-1) \ (S)-(-1) \$ Description

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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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