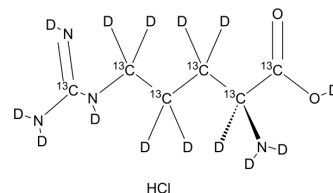


L-Arginine-¹³C₆,d₁₄ hydrochloride

Cat. No.:	HY-N0455AS11
Molecular Formula:	¹³ C ₆ HD ₁₄ ClN ₄ O ₂
Molecular Weight:	230.7
Target:	Isotope-Labeled Compounds; Endogenous Metabolite
Pathway:	Others; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

L-Arginine-¹³C₆,d₁₄ hydrochloride ((S)-(+)-Arginine-¹³C₆,d₁₄ hydrochloride) is a deuterated derivative of L-Arginine hydrochloride (HY-N0455A) that is labeled with ¹³C₆. L-Arginine hydrochloride ((S)-(+)-Arginine hydrochloride) serves as a nitrogen donor for the synthesis of nitric oxide and is a vasodilator^{[1][2][3][4][5]}.

REFERENCES

- [1]. 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 promote the resolution of shock in patients with severe sepsis: results of a randomized, double-blind, placebo-controlled multicenter study (study no. 144-002). *Crit Care Med.* 2004 Jan;32(1):1-12.
- [2]. Tapiero H, et al. L-Arginine. *Biomed Pharmacother.* 2002 Nov;56(9):439-45.
- [3]. Yamada M, et al. Endothelial nitric oxide synthase-dependent cerebral blood flow augmentation by L-arginine after chronic statin treatment. *J Cereb Blood Flow Metab.* 2000 Apr;20(4):709-17.
- [4]. Mizunuma T, et al. Effects of injecting excess arginine on rat pancreas. *J Nutr.* 1984 Mar;114(3):467-71.
- [5]. Siriviriyakul P, et al. Effects of curcumin on oxidative stress, inflammation and apoptosis in L-arginine induced acute pancreatitis in mice. *Heliyon.* 2019 Aug 27;5(8):e02222.

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