Product Data Sheet



Cat. No.: HY-N0543S CAS No.: 1219402-51-3 $C_2^{13}C_2H_6^{15}N_4O_3$ Molecular Formula:

Molecular Weight: 164.07

Imidazoline Receptor; Endogenous Metabolite Target: Pathway: Neuronal Signaling; Metabolic Enzyme/Protease

Storage: Powder -20°C 3 years

> In solvent -80°C 6 months

> > -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 50 mg/mL (304.75 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	6.0950 mL	30.4748 mL	60.9496 mL
	5 mM	1.2190 mL	6.0950 mL	12.1899 mL
	10 mM	0.6095 mL	3.0475 mL	6.0950 mL

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

BIOLOGICAL ACTIVITY

Description	Allantoin- 13 C ₂ , 15 N ₄ is the 13 C and 15 N labeled Allantoin[1]. Allantoin is a skin conditioning agent that promotes healthy skin, stimulates new and healthy tissue growth[2].
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 Feb;53(2):211-216.

[2]. Ahn YJ, et al. Effects of allantoin on cognitive function and hippocampal neurogenesis. Food Chem Toxicol. 2014 Feb;64:210-6.

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

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

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