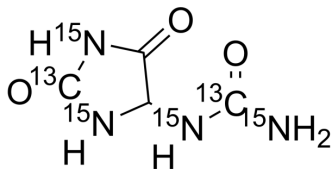
Allantoin-$^{13}C_2$,$^{15}N_4$

Cat. No.:	HY-N0543S
CAS No.:	1219402-51-3
Molecular Formula:	$C_2{}^{13}C_2H_6{}^{15}N_4O_3$
Molecular Weight:	164
Target:	Imidazoline Receptor; Endogenous Metabolite
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



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.

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