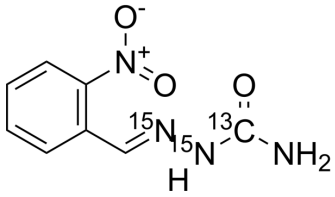
2-Nitrobenzaldehyde semicarbazone-$^{13}C,^{15}N_2$-1

Cat. No.:	HY-138538S
CAS No.:	957509-32-9
Molecular Formula:	$C_7{}^{13}CH_8N_2{}^{15}N_2O_3$
Molecular Weight:	211.15
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Nitrobenzaldehyde semicarbazone-$^{13}C,^{15}N_2$-1 is the ^{13}C, ^{15}N labeled 2-Nitrobenzaldehyde semicarbazone. 2-Nitrobenzaldehyde Semicarbazone is a derivative of Semicarbazide. 2-Nitrobenzaldehyde Semicarbazone can be measured as a metabolite marker to detect the widely banned antibiotic Nitrofurazone.
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]. Abernethy GA, et, al. Generation of semicarbazide from natural azine development in foods, followed by reaction with urea compounds. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2015;32(9):1416-30.

[2]. Zhang S, et, al. A selective biomarker for confirming nitrofurazone residues in crab and shrimp using ultra-performance liquid chromatography-tandem mass spectrometry. Anal Bioanal Chem. 2015 Dec;407(30):8971-7.

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

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