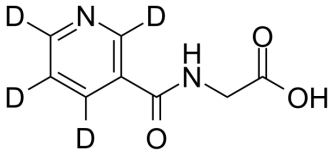
Nicotinuric acid-d4

Cat. No.:	HY-113353S
CAS No.:	1216737-36-8
Molecular Formula:	$C_8H_4D_4N_2O_3$
Molecular Weight:	184.19
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Nicotinuric acid-d4 is the deuterium labeled Nicotinuric acid. Nicotinuric acid is an acyl glycine. Nicotinuric acid is a metabolite of nicotinic acid[1][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;53(2):211-216.

[2]. Inamadugu JK, et al. Simultaneous determination of niacin and its metabolites--nicotinamide, nicotinuric acid and N-methyl-2-pyridone-5-carboxamide--in human plasma by LC-MS/MS and its application to a human pharmacokinetic study. Biomed Chromatogr. 2010

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