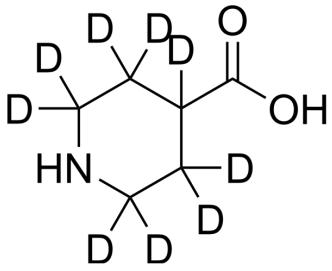
Isonipecotic acid-d_9

Cat. No.:	HY-Y1176S
CAS No.:	1219798-43-2
Molecular Formula:	$C_6H_2D_9NO_2$
Molecular Weight:	138.21
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isonipecotic acid-d_9 is the deuterium labeled Isonipecotic acid[1]. Isonipecotic acid is a GABAA receptor partial agonist[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]. Krehan D, et al. Phosphinic, phosphonic and seleninic acid bioisosteres of isonipecotic acid as novel and selective GABA(C) receptor antagonists. Neurochem Int. 2003 Jun;42(7):561-5.

[3]. Falch E, et al. GABA-mimetic activity and effects on diazepam binding of aminosulphonic acids structurally related to piperidine-4-sulphonic acid. J Neurochem. 1985 Jan44(1):68-75.

Caution: Product has not been fully validated for medical applications. For research use only.

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