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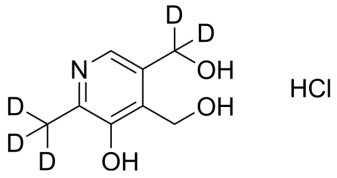
Pyridoxine-d_5 hydrochloride

Cat. No.:	HY-N0682S2
CAS No.:	82896-38-6
Molecular Formula:	$C_8H_7D_5ClNO_3$
Molecular Weight:	210.67
Target:	Keap1-Nrf2; Endogenous Metabolite
Pathway:	NF-κB; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pyridoxine-d_5 (hydrochloride) is the deuterium labeled Pyridoxine hydrochloride[1]. Pyridoxine hydrochloride (Pyridoxol;Vitamin B6) is a pyridine derivative. Pyridoxine (Pyridoxol;Vitamin B6) exerts antioxidant effects in cell model of Alzheimer's disease via the Nrf-2/HO-1 pathway[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]. Li C, et al. Pyridoxine exerts antioxidant effects in cell model of Alzheimer's disease via the Nrf-2/HO-1 pathway. Cell Mol Biol (Noisy-le-grand). 2018 Jul 30;64(10):119-124.

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