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Zuschläge

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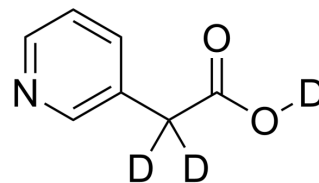
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3-Pyridylacetic acid-d₄ hydrochloride

Cat. No.:	HY-W004515S
CAS No.:	1219802-37-5
Molecular Formula:	C ₇ H ₄ D ₄ ClNO ₂
Molecular Weight:	177.62
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



CID

BIOLOGICAL ACTIVITY

Description	3-Pyridylacetic acid-d ₄ (hydrochloride) is the deuterium labeled 3-Pyridylacetic acid hydrochloride[1]. 3-Pyridineacetic acid hydrochloride is a higher homologue of nicotinic acid, a breakdown product of nicotine (and other tobacco alkaloids)[2][3].
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]. GINOULHIAC E, et al. 3-Pyridineacetic acid and nicotinic acid: blood levels, urinary elimination and excretion of nicotinic acid derivatives in man. Nature. 1962 Mar 10;193:948-9.
- [3]. Zwickenspflug W, et al. Metabolism of myosmine in Wistar rats. Drug Metab Dispos. 2005 Nov33(11):1648-56.

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

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