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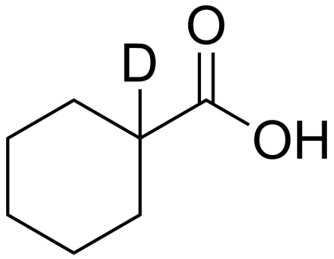
Cyclohexanecarboxylic acid-d_1

Cat. No.:	HY-Y1373S
CAS No.:	933-37-9
Molecular Formula:	$C_7H_{11}DO_2$
Molecular Weight:	129.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyclohexanecarboxylic acid-d_1 is the deuterium labeled Cyclohexanecarboxylic acid[1]. Cyclohexanecarboxylic acid is a Valproate structural analogue with anticonvulsant action[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]. Liu MJ, et al. Pharmacokinetics and pharmacodynamics of valproate analogues in rats. IV. Anticonvulsant action and neurotoxicity of octanoic acid, cyclohexanecarboxylic acid, and 1-methyl-1-cyclohexanecarboxylic acid. Epilepsia. 1994 Jan-Feb;35(1):234-43.

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