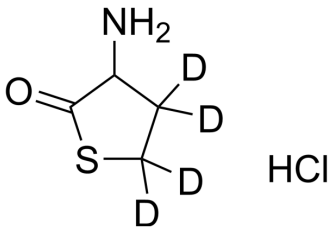
DL-Homocysteine thiolactone-d_4 hydrochloride

Cat. No.:	HY-101404S
CAS No.:	1219805-31-8
Molecular Formula:	$C_4H_4D_4ClNOS$
Molecular Weight:	157.66
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	DL-Homocysteine thiolactone-d4 hydrochloride is the deuterium labeled DL-Homocysteine thiolactone (hydrochloride). DL-Homocysteine thiolactone hydrochloride is a cyclic amino acid derivative that exhibits root-growth inhibitory activity.
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]. Yoshihiko INAMORI, et al. Root-growth Inhibition by DL-Homocysteine Thiolactone and Its Related Compounds. Biosci. Biotech. Biochem., 59 (3), 523-525, 1995.

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