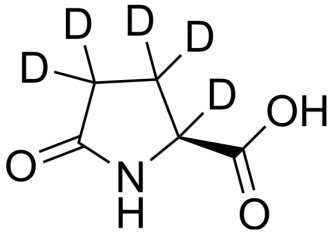
L-Pyroglutamic acid-d_5

Cat. No.:	HY-76082S
CAS No.:	1086136-22-2
Molecular Formula:	$C_5H_2D_5NO_3$
Molecular Weight:	134.14
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	L-Pyroglutamic acid-d_5 is the deuterium labeled L-Pyroglutamic acid. L-Pyroglutamic acid is the levo-isomer of Pyroglutamic acid. L-Pyroglutamic acid is the biologically active enantiomer in humans. Pyroglutamic acid is an intermediate in glutathione metabolism.
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.

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