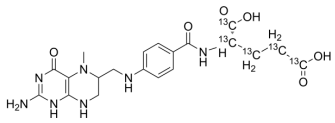
5-Methyltetrahydrofolic acid-$^{13}C_5$

Cat. No.:	HY-113046S
Molecular Formula:	$C_{15}{}^{13}C_5H_{25}N_7O_6$
Molecular Weight:	464.42
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	5-Methyltetrahydrofolic acid-$^{13}C_5$ is the ^{13}C-labeled 5-Methyltetrahydrofolic acid. 5-Methyltetrahydrofolic acid (5-Methyl THF) is a biologically active form of folic acid. 5-Methyltetrahydrofolic acid is a methylated derivate of tetrahydrofolate. 5-Methyltetrahydrofolic acid is the predominant natural dietary folate and the principal form of folate in plasma and cerebrospinal fluid[1].
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]. Wright AJ, et al. Comparison of (6 S)-5-methyltetrahydrofolic acid v. folic acid as the reference folate in longer-term human dietary intervention studies assessing the relative bioavailability of natural food folates: comparative changes in folate status following a 16-week placebo-controlled study in healthy adults. Br J Nutr. 2010 Mar;103(5):724-9.

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