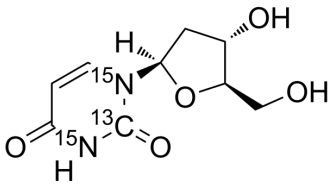
2'-Deoxyuridine-^{13}C,$^{15}N_2$

Cat. No.:	HY-D0186S7
CAS No.:	369656-76-8
Molecular Formula:	$C_8{}^{13}CH_{12}{}^{15}N_2O_5$
Molecular Weight:	231.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	2'-Deoxyuridine-^{13}C,$^{15}N_2$ is the ^{13}C and ^{15}N labeled 2'-Deoxyuridine[1]. 2'-Deoxyuridine could increase chromosome breakage and results in a decreased thymidylate synthetase activity. A known use of 2'-Deoxyuridine is as a precursor in the synthesis of Edoxudine[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]. Reidy JA, et al. Deoxyuridine increases folate-sensitive fragile site expression in human lymphocytes. Am J Med Genet. 1987 Jan;26(1):1-5.

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