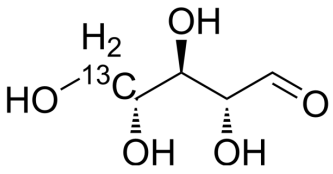
D-Ribose-^{13}C-3

Cat. No.:	HY-W018772S4
CAS No.:	139657-62-8
Molecular Formula:	$C_4{}^{13}CH_{10}O_5$
Molecular Weight:	151.12
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	D-Ribose-^{13}C-3 is the ^{13}C labeled D-Ribose. D-Ribose is an energy enhancer, and acts as a sugar moiety of ATP, and widely used as a metabolic therapy supplement for chronic fatigue syndrome or cardiac energy metabolism. D-Ribose is active in protein glyca
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]. Hong J, et al. D-ribose induces nephropathy through RAGE-dependent NF-κB inflammation. Arch Pharm Res. 2018 Aug;41(8):838-847.

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