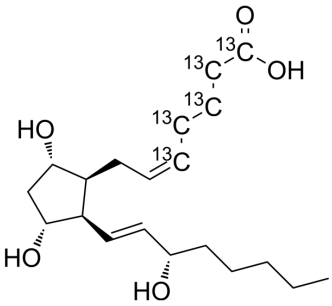
8-Isoprostaglandin F2α-$^{13}C_5$

Cat. No.:	HY-113209S2
Molecular Formula:	$C_{15}{}^{13}C_5H_{27}O_5$
Molecular Weight:	352.39
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	8-Isoprostaglandin F2α-$^{13}C_5$ is ^{13}C labeled 8-Isoprostaglandin F2α (HY-113209). 8-Isoprostaglandin F2α is an isoprostane produced by the non-enzymatic peroxidation of arachidonic acid in membrane phospholipids. 8-Isoprostaglandin F2α is present in human plasma in two distinct forms - esterified in phospholipids and as the free acid. 8-Isoprostaglandin F2α is a weak TP receptor agonist in vascular smooth muscle.
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.

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