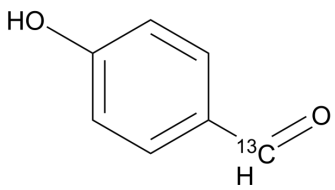
p-Hydroxybenzaldehyde-^{13}C

Cat. No.:	HY-Y0313S1
CAS No.:	152404-52-9
Molecular Formula:	$C_6{}^{13}CH_6O_2$
Molecular Weight:	123.11
Target:	GABA Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	p-Hydroxybenzaldehyde-^{13}C is the ^{13}C-labeled p-Hydroxybenzaldehyde. p-Hydroxybenzaldehyde is a one of the major components in Dendrocalamus asper bamboo shoots, with antagonistic effect on GABAA receptor of the α1β2γ2S subtype at high concentrations.
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]. Zhang J, et al. The Effect of 4-hydroxybenzaldehyde on the γ-aminobutyric Acid Type A Receptor. Malays J Med Sci. 2017 Mar;24(2):94-99.

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