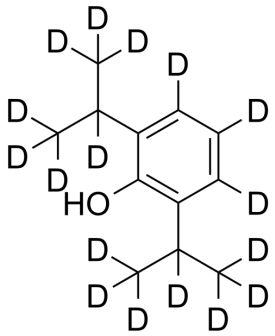
Propofol-d17

Cat. No.:	HY-B0649S
CAS No.:	1261393-54-7
Molecular Formula:	$C_{12}HD_{17}O$
Molecular Weight:	195.38
Target:	GABA Receptor; Endogenous Metabolite
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Propofol-d17 (2,6-Diisopropylphenol-d17) is the deuterium labeled Propofol. Propofol potently and directly activates $GABA_A$ receptor and inhibits glutamate receptor mediated excitatory synaptic transmission. Propofol has antinociceptive properties[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]. R Nadeson, et al. Antinociceptive Properties of Propofol: Involvement of Spinal Cord Gamma-Aminobutyric acid(A) Receptors. J Pharmacol Exp Ther . 1997 Sep;282(3):1181-6.

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