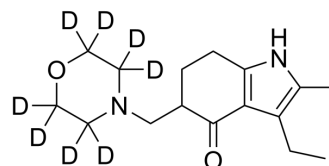


Molindone-d₈

Cat. No.:	HY-107434S		
CAS No.:	1189805-13-7		
Molecular Formula:	C ₁₆ H ₁₆ D ₈ N ₂ O ₂		
Molecular Weight:	284.42		
Target:	Dopamine Receptor; Isotope-Labeled Compounds		
Pathway:	GPCR/G Protein; Neuronal Signaling; Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Molindone-d ₈ is the deuterium labeled Molindone. Molindone hydrochloride (EN-1733A) is a therapeutic antipsychotic, used in the treatment of schizophrenia, works by blocking the effects of dopamine in the brain, leading to diminished psychoses ^{[1][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]. Yu C, et al. In vitro pharmacological characterization of SPN-810M (molindone). J Exp Pharmacol. 2018;10:65-73. Published 2018 Nov 21.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

Caution: Product has not been fully validated for medical applications. For research use only.

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