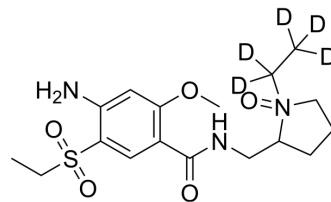


Amisulpride-d₅ N-Oxide

Cat. No.:	HY-14545S1
CAS No.:	1794756-15-2
Molecular Formula:	C ₁₇ H ₂₂ D ₅ N ₃ O ₃ S
Molecular Weight:	390.51
Target:	Dopamine Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amisulpride-d ₅ N-Oxide is the deuterium labeled Amisulpride. Amisulpride is a dopamine D ₂ /D ₃ receptor antagonist with K _i s of 2.8 and 3.2 nM for human dopamine D ₂ and D ₃ , respectively[1][2].
IC₅₀ & Target	D ₃ Receptor
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]. Schoemaker H, et al. Neurochemical characteristics of amisulpride, an atypical dopamine D₂/D₃ receptor antagonist with both presynaptic and limbic selectivity. *J Pharmacol Exp Ther*. 1997 Jan;280(1):83-97.
- [3]. Pawar GR, et al. Evaluation of antidepressant like property of amisulpride per se and its comparison with fluoxetine and olanzapine using forced swimming test in albino mice. *Acta Pol Pharm*. 2009 May-Jun;66(3):327-31.

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

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