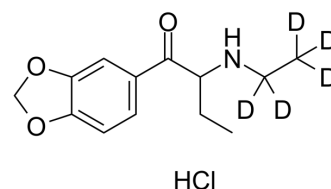


## Melperone-d5 hydrochloride

Cat. No.:	HY-B2169S
CAS No.:	2119948-16-0
Molecular Formula:	C <sub>13</sub> H <sub>13</sub> D <sub>5</sub> ClNO <sub>3</sub>
Molecular Weight:	276.77
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Melperone-d5 hydrochloride is the deuterium labeled Melperone. Melperone, a butyrophenone, is an antipsychotic drug used for sleep induction which is frequently prescribed in psychiatric setting <sup>[1]</sup> . Melperone has been used for a variety of indications, including the treatment of schizophrenia, but also for agitation in the elderly <sup>[2]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Hefner G, et al. Melperone but not bisoprolol or metoprolol is a clinically relevant inhibitor of CYP2D6: evidence from a therapeutic drug monitoring survey. *J Neural Transm (Vienna)*. 2015 Nov;122(11):1609-17.
- [3]. Bobo WV, et al. Melperone, an atypical antipsychotic drug with clozapine-like effect on plasma prolactin: contrast with typical neuroleptics. *Hum Psychopharmacol*. 2009 Jul;24(5):415-22.

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

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