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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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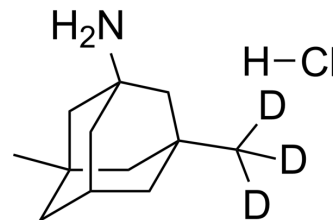
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Memantine-d₃ hydrochloride

Cat. No.:	HY-B0591S
CAS No.:	1329802-06-3
Molecular Formula:	C ₁₂ H ₁₉ D ₃ ClN
Molecular Weight:	218.78
Target:	iGluR; Isotope-Labeled Compounds
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Memantine-d ₃ (hydrochloride) is deuterium labeled Memantine. Memantine is an orally active, noncompetitive N-methyl-D-aspartate receptor (NMDAR) antagonist. Memantine can be used for the research of moderate-to-severe Alzheimer's disease (AD)[1][2][3].
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]. Marotta G, et al. Memantine Derivatives as Multitarget Agents in Alzheimer's Disease. *Molecules*. 2020;25(17):4005. Published 2020 Sep 2.
- [3]. Moriguchi S, et al. Memantine Improves Depressive-like Behaviors via Kir6.1 Channel Inhibition in Olfactory Bulbectomized Mice. *Neuroscience*. 2020;442:264-273.
- [4]. Pinho J, et al. Enhanced LTP in aged rats: Detrimental or compensatory?. *Neuropharmacology*. 2017;114:12-19.

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

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