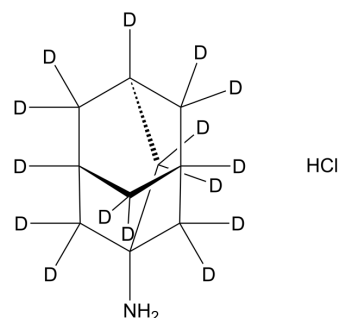


Amantadine-d₁₅ hydrochloride

Cat. No.:	HY-W653905
Molecular Formula:	C ₁₀ H ₃ D ₁₅ ClN
Molecular Weight:	202.8
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amantadine-d ₁₅ hydrochloride is deuterated labeled Amantadine. Amantadine (1-Adamantanamine) is an orally active and potent antiviral agent with activity against influenza A viruses. Amantadine inhibits several ion channels such as NMDA and M2, and also inhibits Coronavirus ion channels. Amantadine also has anti-orthopoxvirus and anticancer activity. Amantadine can be used for Parkinson's disease, postoperative cognitive dysfunction (POCD) and COVID-19 research ^{[1][2][3][4][5][6]} .
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 Feb;53(2):211-216.

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

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