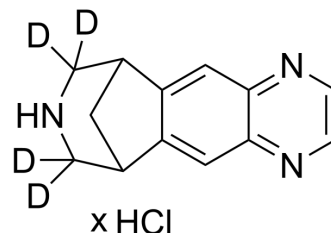


Varenicline-d₄ hydrochloride

| | |
|---------------------------|---|
| Cat. No.: | HY-10019AS1 |
| Molecular Formula: | C ₁₃ H ₉ D ₄ N ₃ ·xHCl |
| Target: | Isotope-Labeled Compounds |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | Varenicline-d ₄ hydrochloride is a deuterium labeled Varenicline (dihydrochloride) (HY-10019A) ^[1] . Varenicline (CP 526555) dihydrochloride is a potent partial agonist for α ₄ β ₂ nicotinic acetylcholine receptor (nAChR) with an EC ₅₀ value of 2.3 μM. Varenicline dihydrochloride is a full agonist for α ₃ β ₄ and α ₇ nAChRs with EC ₅₀ values of 55 μM and 18 μM, respectively ^[2] . Varenicline dihydrochloride is a nicotinic ligand based on the structure of cytosine, and has the potential for smoking cessation treatment ^[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

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

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