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Zuschläge

- Mindermengenzuschlag
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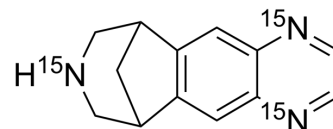
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Varenicline-¹⁵N₃ Hydrochloride

Cat. No.:	HY-10020S
CAS No.:	1244134-80-2
Molecular Formula:	C ₁₃ H ₁₄ Cl ¹⁵ N ₃
Molecular Weight:	250.7
Target:	nAChR; 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.



HCl

BIOLOGICAL ACTIVITY

Description

Varenicline-15N₃ Hydrochloride (CP 526555-15N₃ Hydrochloride) is the ¹⁵N labeled isotope of Varenicline hydrochloride (HY-10020). Varenicline (CP 526555) is an orally active partial agonist of α4β2 nicotinic acetylcholine receptor (α4β2 nAChR, IC₅₀ = 250 nM), which is the principal mediator of nicotine dependence. Varenicline is also a partial agonist of α6β2 nAChR and a full agonist of α6β2 nAChR. Varenicline blocks the direct agonist effects of nicotine on nAChR while stimulates nAChR in a more moderate way, being widely used as an aid of smoking cessation^{[1][2][3][4][5]}.

REFERENCES

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- [4]. Ren J, et al. Countering Opioid-induced Respiratory Depression in Male Rats with Nicotinic Acetylcholine Receptor Partial Agonists Varenicline and ABT 594. Anesthesiology. 2020 May;132(5):1197-1211.
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Caution: Product has not been fully validated for medical applications. For research use only.

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