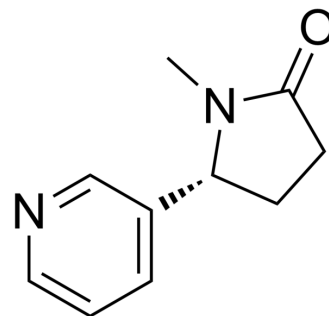


R-(+)-Cotinine

Cat. No.:	HY-B1178A
CAS No.:	32162-64-4
Molecular Formula:	C ₁₀ H ₁₂ N ₂ O
Molecular Weight:	176.22
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	R-(+)-Cotinine ((+)-Cotinine), a Nicotine metabolite, lacks significant activity across a wide range of pharmacological targets. R-(+)-Cotinine can enhance the Ach-evoked current in human $\alpha 7$ nAChRs ^[1] .
In Vitro	R-(+)-Cotinine (1 μ M) significantly enhances the Ach (40 μ M)-evoked current in human $\alpha 7$ nAChRs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	R-(+)-Cotinine (0.3-10 mg/kg; a single i.p.) enhances the effects of a subthreshold dose of Donepezil (0.5 mg/kg) on novel object recognition (NOR) performance ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jr AVT, et, al. R-(+) and S-(-) isomers of cotinine augment cholinergic responses in vitro and in vivo. J Pharmacol Exp Ther. 2015 Feb;352(2):405-18.

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

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