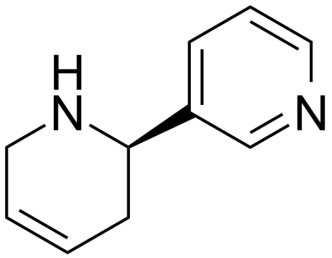
(R)-(+)-Anatabine

Cat. No.:	HY-126047B
CAS No.:	126454-22-6
Molecular Formula:	$C_{10}H_{12}N_2$
Molecular Weight:	160.22
Target:	NF-κB; Amyloid-β; nAChR
Pathway:	NF-κB; Neuronal Signaling; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-(+)-Anatabine is an less active R-enantiomer of Anatabine. Anatabine is a potent α4β2 nAChR agonist[1]. Anatabine inhibits NF-κB activation lower amyloid-β (Aβ) production by preventing the β-cleavage of amyloid precursor protein (APP). Anatabine has anti-inflammatory effects and has the potential for neurodegenerative disorders treatment[2][3][4].

REFERENCES

[1]. Jothi L. Nallasivam, et al. Synthetic modifications of bifunctional homoallylamines: Synthesis of 2-arylpiperidines, (R)-anatabine and (R)-anabasine. An International Journal for Rapid Communication of Synthetic Organic Chemistry. Volume 49, 2019-Issue 21: 2815-2822.

[2]. Paris D, et al. Anatabine lowers Alzheimer's Aβ production in vitro and in vivo. Eur J Pharmacol. 2011 Nov 30;670(2-3):384-91.

[3]. Xing H, et al. A Pharmacological Comparison of Two Isomeric Nicotinic Receptor Agonists: The Marine Toxin Isoanatabine and the Tobacco Alkaloid Anatabine. Mar Drugs. 2020 Feb 11;18(2). pii: E106.

[4]. eo EJ, et al. Phytochemicals as inhibitors of NF-κB for treatment of Alzheimer's disease. Pharmacol Res. 2018 Mar;129:262-273.

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