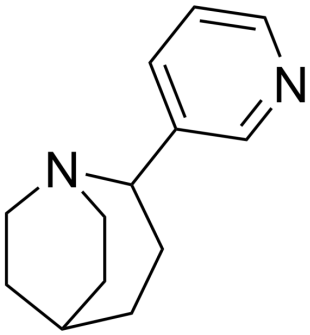
TC-1698

Cat. No.:	HY-107668A
CAS No.:	700834-58-8
Molecular Formula:	$C_{13}H_{18}N_2$
Molecular Weight:	202.3
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	TC-1698 is a selective α7 nicotinic acetylcholine receptors agonist with EC_{50} value of 0.16 μM and 0.46 μM for monkey α7 nicotinic receptor and human α7 nicotinic receptor, respectively. TC-1698 improves memory and has neuroprotective effects. TC-1698 can be used for Alzheimer's disease research[1].

REFERENCES

[1]. Mazurov AA, et al. Discovery and development of α7 nicotinic acetylcholine receptor modulators. J Med Chem. 2011 Dec 8;54(23):7943-61.

[2]. Marrero MB, et al. The neuroprotective effect of 2-(3-pyridyl)-1-azabicyclo[3.2.2]nonane (TC-1698), a novel alpha7 ligand, is prevented through angiotensin II activation of a tyrosine phosphatase. J Pharmacol Exp Ther. 2004 Apr;309(1):16-27.

[3]. Papke RL, et al. Rhesus monkey alpha7 nicotinic acetylcholine receptors: comparisons to human alpha7 receptors expressed in Xenopus oocytes. Eur J Pharmacol. 2005 Nov 7;524(1-3):11-8.

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