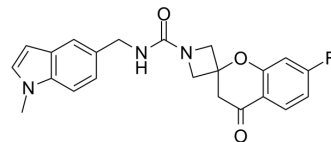


RGH-560

Cat. No.:	HY-149776
CAS No.:	2408799-43-7
Molecular Formula:	C ₂₂ H ₂₀ FN ₃ O ₃
Molecular Weight:	393.41
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	RGH-560 (compound 53) shows highly advanced $\alpha 7$ nAChR positive modulator properties and favorable physicochemical features. RGH-560 has robust procognitive in vivo potential. RGH-560 can be used to study Scopolamine (HY-N0296) - induced amnesia in mice ^[1] .								
In Vivo	<p>RGH-560 (compound 53) (1 mg/kg, 3 mg/kg, 10 mg/kg; Intraperitoneal injection) has significant cognitive-enhancement in Scopolamine(HY-N0296)-induced amnesia in mice. RGH-560 is a medium clearance compound. RGH-560 is non-toxic to mice at doses up to 30 mg/kg^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Mice with scopolamine-induced amnesia^[1]</td> </tr> <tr> <td>Dosage:</td> <td>1 mg/kg, 3 mg/kg, 10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection (i.p.)</td> </tr> <tr> <td>Result:</td> <td>Reversed the scopolamine-induced cognitive impairment.</td> </tr> </table>	Animal Model:	Mice with scopolamine-induced amnesia ^[1]	Dosage:	1 mg/kg, 3 mg/kg, 10 mg/kg	Administration:	Intraperitoneal injection (i.p.)	Result:	Reversed the scopolamine-induced cognitive impairment.
Animal Model:	Mice with scopolamine-induced amnesia ^[1]								
Dosage:	1 mg/kg, 3 mg/kg, 10 mg/kg								
Administration:	Intraperitoneal injection (i.p.)								
Result:	Reversed the scopolamine-induced cognitive impairment.								

REFERENCES

[1]. Ledneczki I, et al. Optimization of Novel $\alpha 7$ Nicotinic Acetylcholine Receptor Positive Allosteric Modulators and the Discovery of a Preclinical Development Candidate Molecule (RGH-560). Journal of Medicinal Chemistry. 2023 Nov.

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

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