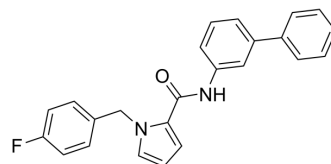


CB2 receptor agonist 6

Cat. No.:	HY-163394
Molecular Formula:	C ₂₄ H ₁₉ FN ₂ O
Molecular Weight:	370.42
Target:	Cannabinoid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CB2 receptor agonist 6 (compound 70) is an agonist of CB2R, with EC ₅₀ of 162 nM. The IC ₅₀ values of CB2 receptor agonist 6 are 4.83 μM for CB1R and 0.88 μM for CB2R. CB2 receptor agonist 6 is a neuroprotective agent that can be used for the research of neurological disease ^[1] .								
IC₅₀ & Target	CB2R								
In Vitro	<p>CB2 receptor agonist 6 (compound 70) (5 μM, 0/15/30/60 min) shows good metabolic stability in vitro^[1].</p> <p>CB2 receptor agonist 6 (5 μM, 0/0.5/1/1.5/2 h) can activate CB2R in vitro and inhibit cAMP expression in mice and humans^[1].</p> <p>CB2 receptor agonist 6 (0.01-10 μM, 90 min) shows selectivity to CB2R, with the values of K_i are 8.8 nM for CB1R and 0.89 nM for CB2R^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>CB2 receptor agonist 6 (compound 70) (1 mg/kg, intraperitoneal injection, predetermined intervals 0.25/0.5/1/2/6/24 h) can significantly reverse the forgetting effect of scopolamine-induced amnesia murine model, and does not affect the spatial learning and memory ability of naive mice^[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>Scopolamine-induced amnesia murine model^[1]</td> </tr> <tr> <td>Dosage:</td> <td>0.1 mg/kg, 1 mg/kg, 5 mg/kg, 10 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>Subcutaneous injection (s.c.)</td> </tr> <tr> <td>Result:</td> <td>Showed neuroprotective effects on scopolamine induced cognitive function in male mice. Did not affect spatial learning and memory processes in naive mice.</td> </tr> </table>	Animal Model:	Scopolamine-induced amnesia murine model ^[1]	Dosage:	0.1 mg/kg, 1 mg/kg, 5 mg/kg, 10 mg/kg	Administration:	Subcutaneous injection (s.c.)	Result:	Showed neuroprotective effects on scopolamine induced cognitive function in male mice. Did not affect spatial learning and memory processes in naive mice.
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REFERENCES

[1]. Di Micco S, et al. Novel pyrrole based CB2 agonists: New insights on CB2 receptor role in regulating neurotransmitters' tone. Eur J Med Chem. 2024 Mar 11;269:116298.

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

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