Proteins



CB2 receptor agonist 2

Cat. No.: HY-132217 CAS No.: 1314230-75-5

Molecular Formula: $C_{30}H_{36}N_2O_4$ Molecular Weight: 488.62

Target: **Cannabinoid Receptor**

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

Product Data Sheet

BIOLOGICAL ACTIVITY

Description CB2 receptor agonist 2 is a potent and selective agonist for the CB2 (cannabinoid type 2) receptor with a Ki of 8.5 nM. CB2 receptor agonist 2 has high affinity and selectivity for CB2^[1].

IC₅₀ & Target CB2

8.5 nM (Ki)

In Vitro

CB2 receptor agonist 2 (compound 4g) (1 µM; 72 hours) has very low or no cytotoxicity to Hep-G2 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[1]

Cell Line:	Hep-G2 (Human hepatoblastoma) cells
Concentration:	1 μΜ
Incubation Time:	72 hours
Result:	Exhibited very low or no cytotoxicity to Hep-G2 cells.

In Vivo

CB2 receptor agonist 2 (compound 4g) (1 and 3 mg/kg; 1 hour) is very potent (with maximal effect being reached already at the 1 mg/kg dose) and has antihyperalgesic effects, efficacious also on the first phase of the nocifensive response and strongly reduced by AM630 (CB2-selective antagonist/inverse agonist) [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Formalin injection induces a biphasic stereotypical nocifensive behavior in $mice^{[1]}$
Dosage:	Formalin (1.25% in saline, 30 μ L), 1 and 3 mg/kg CB2 receptor agonist 2, 1 mg/kg AM630, monitor every 5 minutes for 1 hour
Administration:	Injection in the dorsal surface of one side of the hindpaw (Formalin), i.p. (CB2 receptor agonist, AM630)
Result:	Elicited antihyperalgesic effects and potent (with maximal effect being reached already at the 1 mg/kg dose) and efficacious, strongly reduced by AM630.

[1], Pasquini S. et al. Investiga	ations on the 4-quinolone-3-c	arboxvlic acid motif. 4. Identifica	tion of new potent and selective liga	nds for the cannabinoid type 2 receptor wit
		in mice. J Med Chem. 2011;54(15		ad to the cultural more type 2 receptor me
			edical applications. For research	
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