CB1/2 agonist 2

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-150028 2772379-97-0 C ₂₆ H ₄₃ NO ₃ 417.62 Cannabinoid Receptor GPCR/G Protein; Neuronal Signaling	, , , , , , , , , , , , , , , , , , ,
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY Description CB1/2 agonist 2 (compound 23) is a potent non-selective cannabinoid ligand, with K_i values of 3.5 and 1.2 nM, respectively. CB1/2 agonist 2 can behave as a full CB1 agonist and CB2 competitive inverse agonist. CB1/2 agonist 2 shows antinociceptive activity^[1]. IC₅₀ & Target hCB2-R hCB1-R 1.2 nM (Ki) 3.5 nM (Ki) In Vitro CB1/2 agonist 2 (compound 23) (1 µM, 24-72 h) exhibits a very low cytotoxic potential in Hep-G2 cells^[1]. CB1/2 agonist 2 (0-10 µM) shows a slight but significant inhibition of [35S]GTPγS binding to hCB2-CHO cell membranes, with a mean EC_{50} of 397.90 nM and a mean E_{max} value of -17.81 $\%^{[1]}.$ MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay^[1] Cell Line: Human hepatoblastoma (Hep-G2) cells Concentration: 1μM Incubation Time: 24, 48 or 72 h Result: Exhibited a very low cytotoxic potential, as Hep-G2 cell viability was comparable to controls after 24-72 h of treatment. CB1/2 agonist 2 (compound 23) (0-6 mg/kg, IP, once) significantly reduces the late phase of formalin-induced nocifensive In Vivo behaviour at 6 mg/kg^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Male CD-1 outbred mice (40-45 g)^[1] Animal Model: Dosage: 0, 1, 3, and 6 mg/kg Administration: IP, once, 10 min before the formalin or saline injection Result: Significantly reduced the late phase of formalin-induced nocifensive behaviour at the

Product Data Sheet



highest dose (6 mg/kg, i.p.), whereas no effect was produced by doses of 1 and 3 mg/kg.

REFERENCES

[1]. Brizzi A, et al. Synthetic bioactive olivetol-related amides: The influence of the phenolic group in cannabinoid receptor activity. Bioorg Med Chem. 2020 Jun 1;28(11):115513.

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

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