

Cannabinoid receptors in GtoPdb v.2025.1

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Abstract

Cannabinoid receptors (**nomenclature as agreed by the NC-IUPHAR Subcommittee on Cannabinoid Receptors [127]**) are activated by endogenous ligands that include N-arachidonylethanolamine (**anandamide**), **N-homo-γ-linolenylethanolamine**, **N-docosatetra-7,10,13,16-enylethanolamine** and **2-arachidonoylglycerol**. Potency determinations of endogenous agonists at these receptors are complicated by the possibility of differential susceptibility of endogenous ligands to enzymatic conversion [5].

There are currently three licenced cannabinoid medicines each of which contains a compound that can activate CB₁ and CB₂ receptors [119]. Two of these medicines were developed to suppress nausea and vomiting produced by chemotherapy. These are **nabilone** (Cesamet®), a synthetic CB₁/CB₂ receptor agonist, and synthetic **Δ⁹-tetrahydrocannabinol** (Marinol®; dronabinol), which can also be used as an appetite stimulant. The third medicine, Sativex®, contains mainly **Δ⁹-tetrahydrocannabinol** and **cannabidiol**, both extracted from cannabis, and is used to treat multiple sclerosis and cancer pain.

Contents

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Cannabinoid receptors

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Receptors

CB₁ receptor

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=56>

CB₂ receptor

<https://www.guidetopharmacology.org/GRAC/ObjectDisplayForward?objectId=57>

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