MULTISCREEN™ B-ARRESTIN2 STABLE CELL LINE
RAT RECOMBINANT CB2 RECEPTOR (LOW EXPRESSION)

Data sheet

PRODUCT INFORMATION

Catalog Number: CAr1230BA2-1a

Lot Number: CAr1230BA2-1a-090122

Quantity: 1 vial (2 x 10^6) frozen cells

Freeze Medium: CellBanker 2

Host cell: CHO-K1 β-Arrestin2

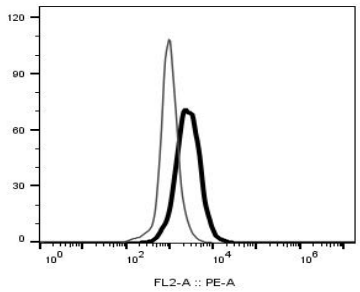
Transfection: Expression vector containing full-length rat CNR2 cDNA (GenBank Accession Number NM_001164143.3) with FLAG tag sequence at N-terminus and ARRB2 cDNA (GenBank Accession Number NM_004313.3)

Recommended Storage: Liquid nitrogen upon receiving

Propagation Medium: DME/F12, 10% FBS, 10 ug/mL puromycin, 800 µg/ml G418

Stability: In progress

Figure 3



Background: Cannabinoid receptor 2 (CB2) is expressed in peripheral and immune tissues. CB2 in rodents is involved not only in processes of regulation of bone homeostasis but also in cannabinoid-induced central nerve system effects. This receptor can serve as potential therapeutic target in the treatment of various disorders affecting central nerve system or skeletal homeostasis. It was also demonstrated that CB2 receptor is involved in the reduction of chemotherapy-induced allodynia.

Application: Functional assays

Figure 1

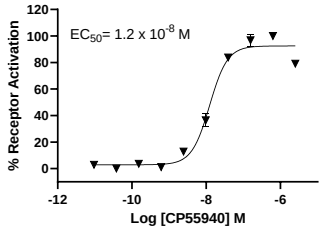


Figure 2

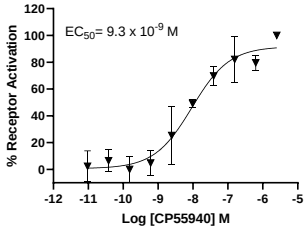


Figure 1. Dose-dependent stimulation from arrestin recruitment upon treatment with ligand, measured with MULTISCREEN™ β-Arrestin Assay Kit (Multispan MSBA01) **Figure 2.** Dose-dependent inhibition of forskolin-stimulated intracellular cAMP level upon treatment with ligand, measured with MULTISCREEN™ TR-FRET cAMP 1.0 No Wash Assay Kit (Multispan MSCM01). **Figure 3.** Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Gray line: parental cells; black line: receptor-expressing cells.

References:

Raphael-Mizrahi and Gabet (2020). The cannabinoids effect on bone formation and bone healing. *Curr. Osteoporos*, 18(5), 433-438.

O'Hearn et al. (2017). Modulating the endocannabinoid pathway as treatment for peripherial neuropathic pain: a selected review of preclinical studies. *Annals of palliative medicine*, 6(Suppl 2), S209-S214.

Turcotte et al. (2016). The CB2 receptor and its role as a regulator of inflammation. *Cell Mol Life Sci*. 73(23):4449-4470.

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