MULTISCREEN™ STABLE CELL LINE
HUMAN RECOMBINANT NPFF1 RECEPTOR

PRODUCT INFORMATION

Catalog Number: C1363
Lot Number: C1363-061814
Quantity: 1 vial (2 x 10^6) frozen cells
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: HEK293T
Transfection: Expression vector containing full-length human NPFF1 cDNA (GenBank Accession Number NM_022146.2) with FLAG tag sequence at N-terminus
Recommended Storage: Liquid nitrogen upon receiving
Propagation Medium: DMEM, 10% FBS, 1 μg/mL puromycin
Stability: In Progress

Data sheet

Background: Neuropeptide FF receptor 1 (NPFF1) acts as a modulator of endogenous opioid function. NPFF1 is found across the central nervous system. It is widely expressed in the hypothalamus and limbic system. Recent studies performed on NPFF1 receptors in mice implicate the receptor as an important regulator of body temperature.

Application: Functional assays

Figure 1

Figure 1. Dose-dependent inhibition of forskolin-stimulated intracellular cAMP level upon treatment with ligand, measured with cAMP HiRange kit (Cisbio 62AM6PEC). Figure 2. Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

References:


Moulédous, Lionel et al. “Opposite control of body temperature by NPFF1 and NPFF2 receptors in mice.” Neuropeptides 44.5: 453 – 456.