MULTISCREEN™ STABLE CELL LINE
HUMAN RECOMBINANT NOP (OPRL1) RECEPTOR

PRODUCT INFORMATION

Catalog Number: C1354a
Lot Number: C1354a-040210
Quantity: 1 vial (2 x 10⁶) frozen cells
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: HEK293T
Transfection: Expression vector containing full-length human OPRL1 cDNA (GenBank Accession Number NM_000913.3) with FLAG tag sequence at N-terminus
Recommended Storage: Liquid nitrogen upon receiving
Propagation Medium: DMEM, 10% FBS, 1 μg/mL puromycin
Stability: Stable after minimum two months continuous growth

Data sheet

Background: NOP, ORL1 or OPRL1 (opioid receptor-like 1 receptor) is also known as nociceptin receptor, orphanin FQ receptor and KOR-3 (kappa 3-related opioid receptor). It is a receptor for the neuropeptide nociceptin/orphanin FQ and has a potential role in modulating a number of brain functions, including instinctive behaviors and emotions. In vivo experiments have demonstrated that nociceptin modulates a variety of biological functions including nociception, food intake, memory processes, cardiovascular and renal functions, spontaneous locomotor activity, gastrointestinal motility, anxiety and neurotransmitter release at peripheral and central sites.

Application: Functional assays

Figure 1

EC₅₀=1.5x10⁻⁹ M

Figure 2

EC₅₀=2.3x10⁻¹⁰ M

Figure 3

References:


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www.multispaninc.com
sales@multispaninc.com
support@multispaninc.com
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