MULTISCREEN™ STABLE CELL LINE
HUMAN RECOMBINANT P2Y6 RECEPTOR

PRODUCT INFORMATION

Catalog Number: C1164-3
Lot Number: C1164-3-040611
Quantity: 1 vial (2 x 10^6) frozen cells
Freeze Medium: Sigma Freezing Medium (C-6164)
Host cell: 1321N1
Transfection: Expression vector containing full-length human P2Y6 cDNA (GenBank Accession Number NM_004154) 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 of two months continuous growth

Data sheet

Background: The human P2Y6 receptor is a member of the G protein-coupled P2 receptor family that responds specifically to the extracellular nucleotide uridine diphosphate (UDP). The distribution of the P2Y6 receptor is widespread including heart, blood vessels and brain. P2Y6 receptors are significantly upregulated in T cells infiltrating regions of inflamed bowel and are involved in monocytic release of IL-8 in response to UDP or lipopolysaccharide (LPS). The immune effect of UDP/P2Y6 signaling on the production of proinflammatory cytokines has been shown to be selective and dependent on cell types.

Application: Functional assays

Figure 1: Dose-dependent calcium flux upon treatment with ligand, measured with Multiscreen™ Calcium 1.0 No Wash Assay Kit (Multispan MSCA01).

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: