

# MULTISCREEN<sup>TM</sup> STABLE CELL LINE HUMAN RECOMBINANT M4 RECEPTOR

#### PRODUCT INFORMATION

Catalog Number: CG1025-1

Lot Number: CG1025-1-072015

Quantity: 1 vial (2 x 106) frozen cells

Freeze Medium: Sigma Freezing

Medium (C-6164)

Host cell: CHO-K1 Gaqi5

**Transfection**: Expression vector containing full-length human CHRM4 cDNA (GenBank accession number NM\_000741.2) with FLAG tag sequence at N-terminus

Recommended Storage: Liquid

nitrogen upon receiving

 $\begin{array}{lll} \textbf{Propagation Medium:} & DMEM/F12, \\ 10\% & FBS, \ 10 \ \mu\text{g/mL puromycin,} \end{array}$ 

250ug/ml hygromycin

**Stability:** Stable in culture for minimum of two months

## **Data sheet**

**Background:** The human muscarinic M4 receptor is a 479-amino acid, 7-transmembrane protein. In heart muscle, M4 receptors are coupled to specific K+currents that regulate cardiac muscle contractions. They can also be found in tissues of the central nervous system and bladder.

Application: Functional assays

#### Figure 1

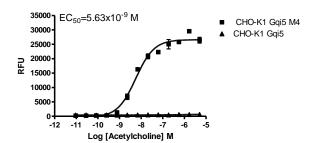


Figure 2

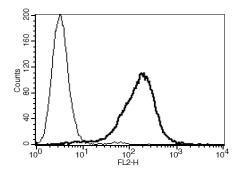


Figure 1. Dose-dependent stimulation of calcium flux upon treatment with ligand, measured with MULTISCREEN™ Calcium 1.0 No Wash Assay Kit (Multispan MSCA01). Figure 2. Receptor expression on cell surface measured by flow cytometry (FACS) using an anti-FLAG antibody. Thin line: parental cells; thick line: receptor-expressing cells.

## References:

Eglen (2006) Muscarinic receptor subtypes in neuronal and non-neuronal cholinergic function. *Auton Atacoid Pharmcol* 26:219-233.

Yeh *et al.* (2007) Atrial tachycardia induces remodeling of muscarinic receptors and their coupled potassium currents in canine left atrial and pulmonary vein cardiomyocytes. *Br J Pharmacol* 152:981-982.

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