

Muscarinic Acetylcholine Receptor M4 (CHRM4) Cell Line | CHRM4 cell line

Muscarinic Acetylcholine Receptor M4 (CHRM4) ACTOne Stable Cell Line

CATALOG #
AAA62077

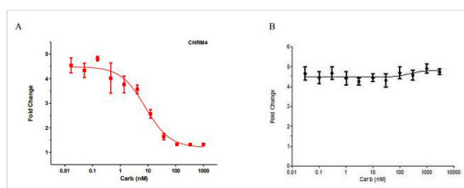
PRODUCT SYNONYMS

Muscarinic Acetylcholine Receptor M4 (CHRM4); Muscarinic Acetylcholine Receptor M4 (CHRM4) ACTOne Stable Cell Line; CHRM4 cell line

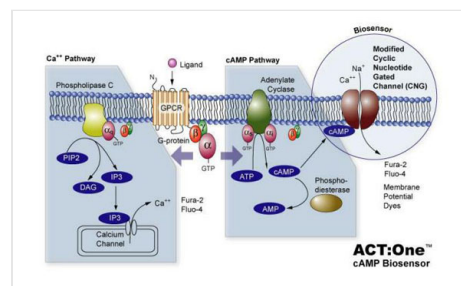
PRODUCT SPECIFICATIONS

Sequence Length	479
Parental Cells	HEK-293 CNG cells
Detection	FlexStation or Microplate reader
Functional Test	This cell line has been tested positive for CHRM4 specific response Surviving Rate: More than 2.5 million/vial on the second day after thawing The receptor specific activity is stable for 10 weeks continuous passage.
Mycoplasma Contamination Test	This lot of cells has been tested and found to be free of mycoplasma contamination.
Content	Stable cells: 1 mL (1 x 10 ⁶ cells/mL in 70% DMEM, 20% FBS, 10% DMSO) Parental cells: 1 mL (1 x 10 ⁶ cells/mL in 70% DMEM, 20% FBS, 10% DMSO)
Growth Properties	Adherent
Cell Culture Medium	Growth medium: DMEM-10% FBS supplemented with 250 ug/ml G418, 1 ug/ml Puromycin Freezing medium: 10% DMSO, 90% complete cell culture medium
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130 degree C, preferably in liquid nitrogen vapor, until ready for use. Dry Ice Shipment: Extra charge fee may add to your shipping cost as dry ice is required to ship this product. Shipping Note: Product is available for shipment in the United States, Canada and European countries. Please inquire for shipment to other countries.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for CHRM4 cell line	Description: This cell line is a HEK-293-CNG cell line that expresses a recombinant human CHRM4. HEK-293-CNG cells express a modified CNG (Cyclic Nucleotide Gated) channel that opens in response to elevated intracellular cAMP levels and consequently result in ion flux and cell membrane depolarization. Human CHRM4 ACTOne™ is a HEK-293 CNG cell line that expresses recombinant human CHRM4. HEK-293 CNG cells express a modified CNG (Cyclic Nucleotide Gated) channel that opens in response to elevated intracellular cAMP levels and consequently result in ion flux (often detectable by calcium-responsive dye) and cell membrane depolarization which can be easily measured with fluorescent Membrane Potential Dye. The assay allows both end-point and kinetic measurement of intracellular cAMP changes with a FLIPR, or a fluorescence microplate reader. Introduction: The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. M4 receptor-deficient mice exhibit increased locomotor stimulation in response to D1 agonists, amphetamine and cocaine. Neurotransmission in the striatum influences extrapyramidal motor control, thus alterations in M4 activity may contribute to conditions such as Parkinson's Disease.
Product Categories/Family for CHRM4 cell line	Cell Lines For Membrane Receptor Research; Stable Cell Lines for ACTOne Assay on G-Protein Coupled Receptors (GPCRs)

NCBI AND UNIPROT INFORMATION

NCBI GI #	1491609498
NCBI GeneID	1132
NCBI Accession #	NP_001353621.1
NCBI GenBank Nucleotide #	NM_001366692.1
UniProt Accession #	P08173; Q0VD60; Q4VBK7; B2RPP4
Molecular Weight	53,049 Da
NCBI Official Full Name	muscarinic acetylcholine receptor M4
NCBI Official Synonym Full Names	cholinergic receptor muscarinic 4
NCBI Official Symbol	CHRM4
NCBI Official Synonym Symbols	HM4; M4R
NCBI Protein Information	muscarinic acetylcholine receptor M4
UniProt Protein Name	Muscarinic acetylcholine receptor M4
UniProt Gene Name	CHRM4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cell-line/muscarinic-acetylcholine-receptor-m4-chrm4/62077>