

PRODUCT INFORMATION

Target	CHRM3
Synonyms	M3R, mAChR M3, ACHE2, MR3, hM3, MUSCARINIC M3 RECEPTOR
Description	Recombinant human CHRM3 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P20309
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	CHRM3(Met1-Gln67) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 33.2 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Background	CHRM3 encodes the muscarinic acetylcholine receptor M3, a G-protein coupled receptor (GPCR) that primarily couples to Gq/11 proteins, activating phospholipase C (PLC), increasing inositol triphosphate (IP ₃) and diacylglycerol (DAG) levels, and mobilizing intracellular Ca ²⁺ . CHRM3 is widely expressed in smooth muscle, exocrine glands, pancreas, and the central nervous system, mediating smooth muscle contraction, glandular secretion, insulin release, and neuronal signaling.
Usage	Research use only
Conjugate	Unconjugated





Figure 1. Human CHRM3 Protein, hFc Tag on SDS-PAGE under reducing condition.

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