

## Product datasheet for **TP762234**

### Muscarinic Acetylcholine Receptor M3 (CHRM3) (NM\_000740) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human cholinergic receptor, muscarinic 3 (CHRM3), Arg253-Gln491, with N-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region(Arg253-Gln491) of CHRM3
Tag:	N-His
Predicted MW:	26.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_000731</a>
Locus ID:	1131
UniProt ID:	<a href="#">P20309</a> , <a href="#">A0A024R3W1</a>
RefSeq Size:	2757
Cytogenetics:	1q43
RefSeq ORF:	1770
Synonyms:	EGBRS; HM3; PBS



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**Summary:**

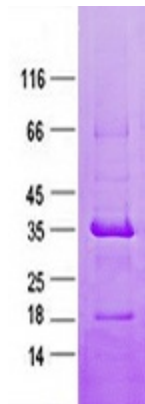
The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 3 controls smooth muscle contraction and its stimulation causes secretion of glandular tissue. Alternative promoter use and alternative splicing results in multiple transcript variants that have different tissue specificities. [provided by RefSeq, Dec 2016]

**Protein Families:**

Druggable Genome, GPCR, Transmembrane

**Protein Pathways:**

Calcium signaling pathway, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton

**Product images:**

Purified recombinant protein CHRM3 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.