

# Muscarinic acetylcholine receptor M1 Recombinant Protein | Chrm1 recombinant protein

Recombinant Rat Muscarinic acetylcholine receptor M1

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| CATALOG #<br><b>AAA113633</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

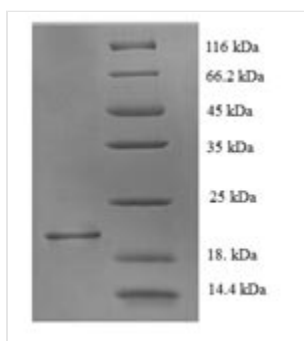
## PRODUCT SYNONYMS

Muscarinic acetylcholine receptor M1; Recombinant Rat Muscarinic acetylcholine receptor M1; Chrm1 recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence Positions      | 210-366aa; Cytoplasmic Domain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Sequence                | RIYRETENRA RELAALQGSE TPGKGGGSSS SSERSQPGAE GSPESPPGRC CRCCRAPRL QAYSWKEEEE<br>EDEGSMESLT SSEGEPPGSE VVIKMPMVDS EAQAPTKQPP KSSPNTVKRP TTKGRDRGGK GQKPRGKEQL<br>AKRKTFSLVK EKKAART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Length         | 366                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Production Note         | <b>Special Offer:</b> The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                                  |                                                                                                                                                                                                                                                                        |
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| <b>Related Product Information for Chrm1 recombinant protein</b> | The muscarinic acetylcholine receptor mediates various cellular responses, including inhibition of adenylate cyclase, breakdown of phosphoinositides and modulation of potassium channels through the action of G proteins. Primary transducing effect is Pi turnover. |
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|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>Identification of a family of muscarinic acetylcholine receptor genes.Bonner T.I., Buckley N.J., Young A.C., Brann M.R.Science 237:527-532(1987) The molecular properties of the M1 muscarinic receptor and its regulation of cytosolic calcium in a eukaryotic gene expression system.Lai J., Smith T.L., Mei L., Ikeda M., Fujiwara Y., Gomez J., Halonen M., Roeske W.R., Yamamura H.I.Adv. Exp. Med. Biol. 287:313-330(1991) Muscarinic acetylcholine receptors. Peptide sequencing identifies residues involved in antagonist binding and disulfide bond formation.Kurtenbach E., Curtis C.A.M., Pedder E.K., Aitken A., Harris A.C.M., Hulme E.C.J. Biol. Chem. 265:13702-13708(1990) Site-directed mutagenesis of the rat m1 muscarinic acetylcholine receptor. Role of conserved cysteines in receptor function.Savarese T.M., Wang C.-D., Fraser C.M.J. Biol. Chem. 267:11439-11448(1992)</p> |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                      |
|----------------------------------|--------------------------------------|
| NCBI GI #                        | 18249941                             |
| NCBI GeneID                      | 25229                                |
| NCBI Accession #                 | NP_542951.1                          |
| NCBI GenBank Nucleotide #        | NM_080773.1                          |
| UniProt Accession #              | P08482                               |
| Molecular Weight                 | 19.1 kDa                             |
| NCBI Official Full Name          | muscarinic acetylcholine receptor M1 |
| NCBI Official Synonym Full Names | cholinergic receptor, muscarinic 1   |
| NCBI Official Symbol             | Chrm1                                |
| NCBI Protein Information         | muscarinic acetylcholine receptor M1 |
| UniProt Protein Name             | Muscarinic acetylcholine receptor M1 |
| UniProt Gene Name                | <b>Chrm1</b>                         |
| UniProt Synonym Gene Names       | Chrm-1                               |
| UniProt Entry Name               | ACM1_RAT                             |

**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.