X-Linked Retinitis Pigmentosa Gtpase Regulator (RPGR) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	X-linked retinitis pigmentosa GTPase regulator (Rpgr), Recombinant Protein
Full Product Name	Recombinant Mouse X-linked retinitis pigmentosa GTPase regulator (Rpgr) , partial
Product Gene Name	Rpgr recombinant protein
Product Synonym Gene Name	Rpgr
Sequence	NKLYMFGSNN WGQLGLGSKA AIIKPTCIKA LKPEKVKLAA CGRNHTLVST DTGGVYAAGG NNEGQLGLGD TDDRDTFHQI VFFTPADTIK QLSAGANTSA ALTEDGKLFM WGDNSEGQIG LEDKSNVCIP HEVTVGKPIS WISCGYYHSA FVTMDGELYT FGEPENGKLG LPNELLMNHR SPQRVLGIPE RVIQVACGGG HTVVLTEKVV YAFGLGQFGQ LGLGTFLFET SEPKIIERIK DQKICHISCG ENHTALMTEL GLLYTFGDGR HGKLGLGMEN FTNQFFPTLC SNFLRFAVQL IACGGCHMLV FATP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	146,029 Da
Sequence Positions	54-367. Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9R0X5
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Rpgr recombinant protein	This gene encodes a protein with a series of six RCC1-like domains (RLDs), characteristic of the highly conserved guanine nucleotide exchange factors. The encoded protein is found in the Golgi body and interacts with RPGRIP1. This protein localizes to the outer segment of rod photoreceptors and is essential for their viability. Mutations in this gene have been associated with X-linked retinitis pigmentosa (XLRP). Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length natures of only some have been determined.
Other Notes	Small volumes of Rpgr recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Rpgr purchase	MBS1353518 is a recombinant protein targeting Rpgr. Also known as Recombinant Mouse X-linked retinitis pigmentosa GTPase regulator (Rpgr) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rpgr. It may not necessarily be applicable to this product.

NCBI GI #	6755348

NCBI GeneID	19893
NCBI Accession #	NP_035415.1
UniProt Primary Accession #	Q9R0X5
UniProt Secondary Accession #	O88408; Q9CU92; A2ADP3; G9BBQ2
UniProt Related Accession #	Q9R0X5
GenBank Nucleotide #	NM_011285.2
NCBI Official Full Name	X-linked retinitis pigmentosa GTPase regulator isoform 3
NCBI Official Synonym Full Names	retinitis pigmentosa GTPase regulator
NCBI Official Symbol	Rpgr
NCBI Official Synonym Symbols	Rd9; Rp3h
UniProt Protein Name	X-linked retinitis pigmentosa GTPase regulator
Protein Family	X-linked retinitis pigmentosa GTPase regulator
UniProt Gene Name	Rpgr
UniProt Synonym Gene Names	mRpgr
NCBI Protein Information	X-linked retinitis pigmentosa GTPase regulator
UniProt Comments for Rpgr	Could be a guanine-nucleotide releasing factor (). Plays a role in ciliogenesis (). Probably regulates cilia formation by regulating actin stress filaments and cell contractility (). May be involved in microtubule organization and regulation of transport in primary cilia (). Plays an important role in photoreceptor integrity. Isoform 5 may play a critical role in spermatogenesis and in intraflagellar transport processes.
Research Articles on Rpgr	**1.** In induced pluripotent stem cells and mouse knockouts that RPGR mediates actin dynamics in photoreceptors via the actin-severing protein, gelsolin.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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