Rho Guanine Nucleotide Exchange Factor 6 (ARHGEF6) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Rho guanine nucleotide exchange factor 6 (Arhgef6), Recombinant Protein
Full Product Name	Recombinant Rat Rho guanine nucleotide exchange factor 6 (Arhgef6)
Product Gene Name	Arhgef6 recombinant protein
Product Synonym Gene Name	Arhgef6
Sequence	MNPEERVVTW LISLGVLESP KKTICDPEEF LKSSLKNGVV LCKLISRLLP GSVEKYCQEP QTEADCIDNI NDFLKGCATL QVEVFEPDDL YSGANFSKVL NTLLAVNKAT EDQLSERPCG RSSSLSATTS SQTNPQAAVP STTPEQQSEE KAAEMTENGS HQLIVKARFN FKQTNEDELS VCKGDIIYVT RVEEGGWWEG TLNGRTGWFP SNYVREIKPS ERPLSPKAVK GFDTAPLTKN YYTVVLQNIL DTEKEYAKEL QSLLVTYLRP LQSNNNLSTV EFTCLLGNFE EVCTFQQTLC QALEECSKSP ENQHKVGGCL LNLMPHFKSM YLAYCANHPS AVNVLTQHSD DLERFMENQG ASSPGILILT TSLSKPFMRL EKYVTLLQEL ERHMEDTHPD HQDILKAIIA FKSLMGQCQD LRKRKQLELQ ILSEPIQAWE GDDIKTLGNV IFMSQVVMQH GACEEKEERY FLLFSSVLIM LSASPRMSGF MYQGKVPIAG MVVTRLDEIE GNDCTFEITG STVERIVVHC NNNQDFQEWM EQLNRLTKGP ASCSSLSKTS SSSCSTHSSF SSTGQPRGPL EPPQIIKPWS LSCLRPAPPL RPSAALGYKE RMSYILKESS KSPKTMKKFL HKRKTERKTS EEEYVIRKST AALEEDAQIL KVIEAYCTSA SFQQGTRKDS VPQVLLPEEE KLIIEETRSN GQTIIEEKSL VDTVYALKDE VKELKQENKK MKQCLEEELK SRKDLEKLVR KLLKQTDESI RAESSSKTSI LQ
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	87,013 Da
Sequence Positions	1-772, full length protein
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 Q5XXR3
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Arhgef6 recombinant protein	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It may form a complex with G proteins and stimulate Rho-dependent signals. This protein is activated by PI3-kinase. Mutations in this gene can cause X-chromosomal non-specific mental retardation.
Other Notes	Small volumes of Arhgef6 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 Arhgef6 purchase	MBS1436933 is a recombinant protein targeting Arhgef6. Also known as Recombinant Rat Rho guanine nucleotide exchange factor 6 (Arhgef6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Arhgef6. It may not necessarily be applicable to this product.

NCBI GI #	53850659
NCBI GeneID	363509
NCBI Accession #	NP_001005565.1
UniProt Primary Accession #	Q5XXR3
UniProt Related Accession #	Q5XXR3
GenBank Nucleotide #	NM_001005565.1
NCBI Official Full Name	rho guanine nucleotide exchange factor 6
NCBI Official Synonym Full Names	Rac/Cdc42 guanine nucleotide exchange factor 6
NCBI Official Symbol	Arhgef6
UniProt Protein Name	Rho guanine nucleotide exchange factor 6
UniProt Synonym Protein Names	Rac/Cdc42 guanine nucleotide exchange factor 6
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	Arhgef6
NCBI Protein Information	rho guanine nucleotide exchange factor 6
UniProt Comments for Arhgef6	Acts as a RAC1 guanine nucleotide exchange factor (GEF).
Research Articles on Arhgef6	**1.** c-Cbl negatively regulates alphaPix-mediated cell migration and invasion; the lack of c-Cbl in C6 and A172 glioma cells is responsible for their malignant behavior
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