Pleckstrin Homology Domain-Containing Family M Member 1 (PLEKHM1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pleckstrin homology domain-containing family M member 1 (Plekhm1), Recombinant Protein
Full Product Name	Recombinant Rat Pleckstrin homology domain-containing family M member 1 (Plekhm1) , partial
Product Gene Name	Plekhm1 recombinant protein
Product Synonym Gene Name	Plekhm1
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	117,508 Da
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 Q5PQS0
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Plekhm1 recombinant protein	This protein is essential for bone resorption, and may play a critical role in vesicular transport in the osteoclast. Mutations in this gene are associated with autosomal recessive osteopetrosis type 6 (OPTB6). Alternatively spliced transcript variants have been found for this gene.
Other Notes	Small volumes of Plekhm1 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 Plekhm1 purchase	MBS1342795 is a recombinant protein targeting Plekhm1. Also known as Recombinant Rat Pleckstrin homology domain-containing family M member 1 (Plekhm1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Plekhm1. It may not necessarily be applicable to this product.

NCBI GI #	57527311
NCBI GeneID	303584
NCBI Accession #	NP_001009677.1
UniProt Primary Accession #	Q5PQS0
UniProt Related Accession #	Q5PQS0

GenBank Nucleotide #	NM_001009677.1
NCBI Official Full Name	pleckstrin homology domain-containing family M member 1
NCBI Official Synonym Full Names	pleckstrin homology and RUN domain containing M1
NCBI Official Symbol	Plekhm1
UniProt Protein Name	Pleckstrin homology domain-containing family M member 1
Protein Family	Pleckstrin homology domain-containing family
UniProt Gene Name	Plekhm1
UniProt Synonym Gene Names	PH domain-containing family M member 1
NCBI Protein Information	pleckstrin homology domain-containing family M member 1
UniProt Comments for Plekhm1	Proposed to act as a multivalent adapter protein that regulates Rab7-dependent and HOPS complex-dependent fusion events in the endolysosomal system and couples autophagic and the endocytic trafficking pathways. Required for late stages of endolysosomal maturation, facilitating both endocytosis-mediated degradation of growth factor receptors and autophagosome clearance. Seems to be involved in the terminal maturation of autophagosomes and to mediate autophagosome-lysosome fusion (). Positively regulates lysosome peripheral distribution and ruffled border formation in osteoclasts (PubMed:17404618). May be involved in negative regulation of endocytic transport from early endosome to late endosome/lysosome implicating its association with Rab7. May have a role in sialyl-lex-mediated transduction of apoptotic signals (). Involved in bone resorption ().
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