Peflin (PEF1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peflin (Pef1), Recombinant Protein
Full Product Name	Recombinant Mouse Peflin (Pef1)
Product Gene Name	Pef1 recombinant protein
Product Synonym Gene Name	Pef1
Sequence	MASYPNGQSC PGAAGQVPGV PPGGYYPGPP HGGGQYGSGL PPGGGYGAPA PGGPYGYPSA GGVPSGTPSG PYGGIPPGGP YGQLPPGGPY GTQPGHYGQG GVPPNVDPEA YSWFQSVDAD HSGYISLKEL KQALVNSNWS SFNDETCLMM INMFDKTKSG RIDVAGFSAL WKFLQQWRNL FQQYDRDRSG SISSTELQQA LSQMGYNLSP QFTQLLVSRY CARSAIPAMQ LDCFIKVCTQ LQVLTEAFRE KDTAVQGNIR LSFEDFVTMT ASRML
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	29,228 Da
Sequence Positions	1-275, 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 Q8BFY6
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Pef1 recombinant protein	MBS1407396 is a recombinant protein targeting Pef1. Also known as Recombinant Mouse Peflin (Pef1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Pef1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Pef1. It may not necessarily be applicable to this product.

NCBI GI #	31980937
NCBI GeneID	67898
NCBI Accession #	NP_080717.2
UniProt Primary Accession #	Q8BFY6
UniProt Secondary Accession #	Q8VCT5; Q9CYW8; Q9D934

UniProt Related Accession #	Q8BFY6
GenBank Nucleotide #	NM_026441.4
NCBI Official Full Name	peflin
NCBI Official Synonym Full Names	penta-EF hand domain containing 1
NCBI Official Symbol	Pef1
NCBI Official Synonym Symbols	Peflin; 2600002E23Rik
UniProt Protein Name	Peflin
UniProt Synonym Protein Names	PEF protein with a long N-terminal hydrophobic domain
Protein Family	Peflin
UniProt Gene Name	Pef1
NCBI Protein Information	peflin
UniProt Comments for Pef1	Calcium-binding protein that acts as an adapter that bridges unrelated proteins or stabilizes weak protein-protein complexes in response to calcium. Together with PDCD6, acts as calcium-dependent adapter for the BCR(KLHL12) complex, a complex involved in endoplasmic reticulum (ER)-Golgi transport by regulating the size of COPII coats. In response to cytosolic calcium increase, the heterodimer formed with PDCD6 interacts with, and bridges together the BCR(KLHL12) complex and SEC31 (SEC31A or SEC31B), promoting monoubiquitination of SEC31 and subsequent collagen export, which is required for neural crest specification. Its role in the heterodimer formed with PDCD6 is however unclear: some evidences show that PEF1 and PDCD6 work together and promote association between PDCD6 and SEC31 in presence of calcium. Other reports show that PEF1 dissociates from PDCD6 in presence of calcium, and may act as a negative regulator of PDCD6 (). Also acts as a negative regulator of ER-Golgi transport; possibly by inhibiting interaction between PDCD6 and SEC31 ().
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