Protocadherin Fat 4 (FAT4) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protocadherin Fat 4 (Fat4), Recombinant Protein
Full Product Name	Recombinant Mouse Protocadherin Fat 4 (Fat4) , partial
Product Gene Name	Fat4 recombinant protein
Product Synonym Gene Name	Fat4
Sequence	AEQRQVFQVM EEQPPGTLVG TIPTRPGFTY RLSESHALFA INSSTGALYT TATIDRESLP SDVVNLVVLS SSPTYPTEVR VLVRDLNDNA PVFPDPSIVV TFKEDSGSGR QVILDTATDS DIGSNGVDHH SYRIVSGNEA GRFRLDITLN PSGEGAFLHL VSKGGLDREV TPQYQLLVEV EDKGEPKRRG YLQVNVTVQD INDNPPVFGS SHYQAGVPED AVVGSSVLQV AAADADEGTN ADIRYRLQDE GTPFQMDPET GLITVREPLD FEARRQYSLT VQATDRGVPS LTGRAEAFIQ LLDVNDNDPV VKF
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	214,692 Da
Sequence Positions	43-355aa; 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 Q2PZL6
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fat4 recombinant protein	MBS1322937 is a recombinant protein targeting Fat4. Also known as Recombinant Mouse Protocadherin Fat 4 (Fat4) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Fat4 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 Fat4. It may not necessarily be applicable to this product.

NCBI GI #	153792706
NCBI GeneID	329628
NCBI Accession #	NP_899044.3
UniProt Primary Accession #	Q2PZL6
UniProt Secondary Accession #	Q68FE0; Q8BM82; Q8CD68; E9QMR9

UniProt Related Accession #	Q2PZL6
GenBank Nucleotide #	NM_183221.3
NCBI Official Full Name	protocadherin Fat 4
NCBI Official Synonym Full Names	FAT atypical cadherin 4
NCBI Official Symbol	Fat4
NCBI Official Synonym Symbols	9430004M15; 6030410K14Rik
UniProt Protein Name	Protocadherin Fat 4
UniProt Synonym Protein Names	FAT tumor suppressor homolog 4; Fat-like cadherin protein FAT-J
Protein Family	Protocadherin
UniProt Gene Name	Fat4
UniProt Synonym Gene Names	Fatj
NCBI Protein Information	protocadherin Fat 4
UniProt Comments for Fat4	Cadherins are cell-cell interaction molecules. FAT4 plays a role in the maintenance of planar cell polarity as well as in inhibition of YAP1-mediated neuroprogenitor cell proliferation and differentiation.
Research Articles on Fat4	**1.** Fat4 and Dachsous1 are critical regulators of lymphatic valve morphogenesis. Valve defects may contribute to lymphedema in Hennekam syndrome caused by Fat4 mutations.
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