# Four and a Half LIM Domains Protein 5 (FHL5) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Four and a half LIM domains protein 5 (FHL5), Recombinant Protein |
| **Full Product Name** | Recombinant Human Four and a half LIM domains protein 5 (FHL5) |
| **Product Gene Name** | FHL5 recombinant protein |
| **Product Synonym Gene Name** | FHL5 |
| **Sequence** | MTTAHFYCQY CTASLLGKKY VLKDDSPYCV TCYDRVFSNY CEECKKPIES DSKDLCYKDR HWHEGCFKCT KCNHSLVEKP FAAKDERLLC TECYSNECSS KCFHCKRTIM PGSRKMEFKG NYWHETCFVC ENCRQPIGTK PLISKESGNY CVPCFEKEFA HYCNFCKKVI TSGGITFCDQ LWHKECFLCS GCRKDLCEEQ FMSRDDYPFC VDCYNHLYAN KCVACSKPIS GLTGAKFICF QDSQWHSECF NCGKCSVSLV GKGFLTQNKE IFCQKCGSGM DTDI |
| **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** | 32,720 Da |
| **Sequence Positions** | 1-284, 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. |
| **OMIM** | 605126 |
| **3D Structure** | ModBase 3D Structure for Q5TD97 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for FHL5 recombinant protein** | MBS1350004 is a recombinant protein targeting FHL5. Also known as Recombinant Human Four and a half LIM domains protein 5 (FHL5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of FHL5 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 FHL5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 282847459 |
| **NCBI GeneID** | 9457 |
| **NCBI Accession #** | NP_001164278.1 |
| **UniProt Primary Accession #** | Q5TD97 |

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| **UniProt Secondary Accession #** | Q5TD98; Q8WW21; Q9NQU2; B2RBD1; E1P526 |
| **UniProt Related Accession #** | Q5TD97 |
| **GenBank Nucleotide #** | NM_001170807.2 |
| **NCBI Official Full Name** | four and a half LIM domains protein 5 |
| **NCBI Official Synonym Full Names** | four and a half LIM domains 5 |
| **NCBI Official Symbol** | FHL5 |
| **NCBI Official Synonym Symbols** | ACT; FHL-5; dJ393D12.2; 1700027G07Rik |
| **UniProt Protein Name** | Four and a half LIM domains protein 5 |
| **UniProt Synonym Protein Names** | Activator of cAMP-responsive element modulator in testis; Activator of CREM in testis |
| **Protein Family** | Four and a half LIM domains protein |
| **UniProt Gene Name** | FHL5 |
| **UniProt Synonym Gene Names** | ACT; FHL-5; Activator of CREM in testis |
| **NCBI Protein Information** | four and a half LIM domains protein 5 |
| **NCBI Summary for FHL5** | The protein encoded by this gene is coordinately expressed with activator of cAMP-responsive element modulator (CREM). It is associated with CREM and confers a powerful transcriptional activation function. CREM acts as a transcription factor essential for the differentiation of spermatids into mature spermatozoa. There are multiple polyadenylation sites found in this gene. Polymorphisms in this gene may be associated with susceptibility for migraine headaches. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Apr 2016] |
| **UniProt Comments for FHL5** | May be involved in the regulation of spermatogenesis. Stimulates CREM transcriptional activity in a phosphorylation-independent manner. |
| **Research Articles on FHL5** | **1.** Identified CREB activators MAPKAPK3 and FHL5 as mediators of intimal hyperplasia in vein graft samples. |
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