Protein FAM105B (FAM105B) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein FAM105B (FAM105B), Recombinant Protein
Full Product Name	Recombinant Human Protein FAM105B (FAM105B)
Product Gene Name	FAM105B recombinant protein
Product Synonym Gene Name	FAM105B
Sequence	MSRGTMPQPE AWPGASCAET PAREAAATAR DGGKAAASGQ PRPEMQCPAE HEEDMYRAAD EIEKEKELLI HERGASEPRL SVAPEMDIMD YCKKEWRGNT QKATCMKMGY EEVSQKFTSI RRVRGDNYCA LRATLFQAMS QAVGLPPWLQ DPELMLLPEK LISKYNWIKQ WKLGLKFDGK NEDLVDKIKE SLTLLRKKWA GLAEMRTAEA RQIACDELFT NEAEEYSLYE AVKFLMLNRA IELYNDKEKG KEVPFFSVLL FARDTSNDPG QLLRNHLNQV GHTGGLEQVE MFLLAYAVRH TIQVYRLSKY NTEEFITVYP TDPPKDWPVV TLIAEDDRHY NIPVRVCEET SL
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	40,263 Da
Sequence Positions	1-352aa; 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	615712
3D Structure	ModBase 3D Structure for Q96BN8
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FAM105B recombinant protein	MBS1434981 is a recombinant protein targeting FAM105B. Also known as Recombinant Human Protein FAM105B (FAM105B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of FAM105B 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 FAM105B. It may not necessarily be applicable to this product.

NCBI GI #	115334675
NCBI GeneID	90268
NCBI Accession #	NP_612357.4

UniProt Primary Accession #	Q96BN8
UniProt Secondary Accession #	Q8NAS0; Q96IA3; D3DTD3
UniProt Related Accession #	Q96BN8
GenBank Nucleotide #	NM_138348.5
NCBI Official Full Name	ubiquitin thioesterase otulin
NCBI Official Synonym Full Names	OTU deubiquitinase with linear linkage specificity
NCBI Official Symbol	OTULIN
NCBI Official Synonym Symbols	GUM; AIPDS; FAM105B
UniProt Protein Name	Ubiquitin thioesterase otulin
UniProt Synonym Protein Names	Deubiquitinating enzyme otulin
UniProt Gene Name	OTULIN
NCBI Protein Information	ubiquitin thioesterase otulin
NCBI Summary for FAM105B	This gene encodes a member of the peptidase C65 family of ubiquitin isopeptidases. Members of this family remove ubiquitin from proteins. The encoded enzyme specifically recognizes and removes M1(Met1)-linked, or linear, ubiquitin chains from protein substrates. Linear ubiquitin chains are known to regulate the NF-kappa B signaling pathway in the context of immunity and inflammation. Mutations in this gene cause a potentially fatal autoinflammatory syndrome in human patients. [provided by RefSeq, Sep 2016]
UniProt Comments for FAM105B	Deubiquitinase that specifically removes linear ('Met-1'-linked) polyubiquitin chains to substrates and acts as a regulator of angiogenesis and innate immune response (PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:27523608, PubMed:27559085, PubMed:24726323, PubMed:24726327). Associates with the LUBAC complex via direct interaction with RNF31 and counteracts its action by cleaving linear polyubiquitin chains to substrates (PubMed:23708998, PubMed:23746843, PubMed:23806334, PubMed:23827681, PubMed:24726323, PubMed:24726327). Required during angiogenesis, craniofacial and neuronal development by regulating the canonical Wnt signaling together with the LUBAC complex (PubMed:23708998). Acts as a negative regulator of NF-kappa-B by counteracting activity of the LUBAC complex (PubMed:23746843, PubMed:23806334). Required for homeostasis of the LUBAC complex by restricting autoubiquination of the LUBAC complex subunit RNF31 (PubMed:24726323). Some results have suggested that OTULIN function is restricted to homeostasis of the LUBAC complex, because it is not stably associated with TNF or NOD2 receptor signaling complexes (RSCs) (PubMed:26670046). However, further report have shown that it plays active roles in receptor signaling (PubMed:26997266, PubMed:27523608). Acts as a key negative regulator of inflammation by restricting spontaneous inflammation and maintaining immune homeostasis (PubMed:27523608). In myeloid cell, required to prevent unwarranted secretion of cytokines leading to inflammation and autoimmunity by restricting linear polyubiquitin formation (PubMed:27523608). Plays a key role in innate immune response by restricting linear polyubiquitin formation on RIPK2 in response to NOD2 stimulation, probably to limit NOD2-dependent proinflammatory signaling (PubMed:23806334).
Research Articles on FAM105B	**1.** Biallelic hypomorphic mutations in OTULIN define otulipenia, an early-onset autoinflammatory disease.
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