Zinc Finger with UFM1-Specific Peptidase Domain Protein (ZUFSP) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Zinc finger with UFM1-specific peptidase domain protein (ZUFSP), Recombinant Protein
Full Product Name	Recombinant Human Zinc finger with UFM1-specific peptidase domain protein (ZUFSP)
Product Gene Name	ZUFSP recombinant protein
Product Synonym Gene Name	ZUFSP
Sequence	MLSCNICGET VTSEPDMKAH LIVHMESEII CPFCKLSGVN YDEMCFHIET AHFEQNTLER NFERINTVQY GTSDNKKDNT LQCGMEVNSS ILSGCASNHP KNSAQNLTKD STLKHEGFYS ENLTESRKFL KSREKQSSLT EIKGSVYETT YSPPECPFCG KIEEHSEDME THVKTKHANL LDIPLEDCDQ PLYDCPMCGL ICTNYHILQE HVDLHLEENS FQQGMDRVQC SGDLQLAHQL QQEEDRKRRS EESRQEIEEF QKLQRQYGLD NSGGYKQQQL RNMEIEVNRG RMPPSEFHRR KADMMESLAL GFDDGKTKTS GIIEALHRYY QNAATDVRRV WLSSVVDHFH SSLGDKGWGC GYRNFQMLLS SLLQNDAYND CLKGMLIPCI PKIQSMIEDA WKEGFDPQGA SQLNNRLQGT KAWIGACEVY ILLTSLRVKC HIVDFHKSTG PLGTHPRLFE WILNYYSSEG EGSPKVVCTS KPPIYLQHQG HSRTVIGIEE KKNRTLCLLI LDPGCPSREM QKLLKQDIEA SSLKQLRKSM GNLKHKQYQI LAVEGALSLE EKLARRQASQ VFTAEKIP
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	6,724 Da
Sequence Positions	1-578, 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 Q96AP4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ZUFSP recombinant protein	MBS1337642 is a recombinant protein targeting ZUFSP. Also known as Recombinant Human Zinc finger with UFM1-specific peptidase domain protein (ZUFSP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ZUFSP 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 ZUFSP. It may not necessarily be applicable to this product.

NCBI GI #	292494919
NCBI GeneID	221302

NCBI Accession #	NP_659499.2
UniProt Primary Accession #	Q96AP4
UniProt Secondary Accession #	Q5TD92; Q6PJH7; Q96NV6
UniProt Related Accession #	Q96AP4
GenBank Nucleotide #	NM_145062.2
NCBI Official Full Name	zinc finger with UFM1-specific peptidase domain protein
NCBI Official Synonym Full Names	zinc finger containing ubiquitin peptidase 1
NCBI Official Symbol	ZUP1
NCBI Official Synonym Symbols	ZUFSP; C6orf113
UniProt Protein Name	Zinc finger with UFM1-specific peptidase domain protein
Protein Family	Zinc finger with UFM1-specific peptidase domain protein
UniProt Gene Name	ZUFSP
UniProt Synonym Gene Names	C6orf113
NCBI Protein Information	zinc finger with UFM1-specific peptidase domain protein
NCBI Summary for ZUFSP	This gene encodes a protein containing zinc finger motifs and a cysteine peptidase domain. The encoded protein functions as a K63-specific de-ubiquitinating enzyme that specifically cleaves long K63-linked polyubiquitin chains in the middle of a chain (i.e. "endo cleavage) rather than by removing the terminal ubiquitin from a chain. This enzyme is thought to be involved in the regulation of DNA repair by cleaving K63-linked ubiquitin chains at repair foci. This protein is related to proteases for the ubiquitin-like modifiers Ufm1 (ubiquitin fold modifier 1) and Atg8/Gabarapl2, but does not have any activity on these modifiers. [provided by RefSeq, Mar 2018]
Research Articles on ZUFSP	**1.** ZUFSP (ZUP1) is a K63-specific deubiquitinating enzyme that is distantly related to proteases for the ubiquitin-like modifiers Ufm1 and Atg8. ZUFSP does not have any activity on these modifiers. ZUFSP specifically cleaves long K63-linked poly-ubiquitin chains in an ""endo"" mode, i.e. cleavage takes place in the middle of a chain rather than by removing the terminal ubiquitin from a chain.
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