Aprataxin and PNK-Like Factor (APLF) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Aprataxin and PNK-like factor (APLF), Recombinant Protein
Full Product Name	Recombinant Human Aprataxin and PNK-like factor (APLF)
Product Gene Name	APLF recombinant protein
Product Synonym Gene Name	APLF
Sequence	MSGGFELQPR DGGPRVALAP GETVIGRGPL LGITDKRVSR RHAILEVAGG QLRIKPIHTN PCFYQSSEKS QLLPLKPNLW CYLNPGDSFS LLVDKYIFRI LSIPSEVEMQ CTLRNSQVLD EDNILNETPK SPVINLPHET TGASQLEGST EIAKTQMTPT NSVSFLGENR DCNKQQPILA ERKRILPTWM LAEHLSDQNL SVPAISGGNV IQGSGKEEIC KDKSQLNTTQ QGRRQLISSG SSENTSAEQD TGEECKNTDQ EESTISSKEM PQSFSAITLS NTEMNNIKTN AQRNKLPIEE LGKVSKHKIA TKRTPHKEDE AMSCSENCSS AQGDSLQDES QGSHSESSSN PSNPETLHAK ATDSVLQGSE GNKVKRTSCM YGANCYRKNP VHFQHFSHPG DSDYGGVQIV GQDETDDRPE CPYGPSCYRK NPQHKIEYRH NTLPVRNVLD EDNDNVGQPN EYDLNDSFLD DEEEDYEPTD EDSDWEPGKE DEEKEDVEEL LKEAKRFMKR K
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	56,956 Da
Sequence Positions	1-511, 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	611035
3D Structure	ModBase 3D Structure for Q8IW19
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for APLF recombinant protein	MBS1459831 is a recombinant protein targeting APLF. Also known as Recombinant Human Aprataxin and PNK-like factor (APLF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of APLF 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 APLF. It may not necessarily be applicable to this product.

NCBI GI #	27734905
NCBI GeneID	200558

NCBI Accession #	NP_775816.1
UniProt Primary Accession #	Q8IW19
UniProt Secondary Accession #	Q53P47; Q53PB9; Q53QU0; A8K476
UniProt Related Accession #	Q8IW19
GenBank Nucleotide #	NM_173545.2
NCBI Official Full Name	aprataxin and PNK-like factor
NCBI Official Synonym Full Names	aprataxin and PNKP like factor
NCBI Official Symbol	APLF
NCBI Official Synonym Symbols	APFL; PALF; Xip1; ZCCHH1; C2orf13
UniProt Protein Name	Aprataxin and PNK-like factor
UniProt Synonym Protein Names	Apurinic-apyrimidinic endonuclease APLF; PNK and APTX-like FHA domain-containing protein; XRCC1-interacting protein 1
Protein Family	Aprataxin and PNK-like factor
UniProt Gene Name	APLF
UniProt Synonym Gene Names	C2orf13; PALF; XIP1
NCBI Protein Information	aprataxin and PNK-like factor
NCBI Summary for APLF	C2ORF13 is a component of the cellular response to chromosomal DNA single- and double-strand breaks (Iles et al., 2007 [PubMed 17353262]).[supplied by OMIM, Mar 2008]
UniProt Comments for APLF	Nuclease involved in single-strand and double-strand DNA break repair. Recruited to sites of DNA damage through interaction with poly(ADP-ribose), a polymeric post-translational modification synthesized transiently at sites of chromosomal damage to accelerate DNA strand break repair reactions. Displays apurinic-apyrimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage.
Research Articles on APLF	**1.** characterization of the interaction of the APLF FHA domain with phosphorylated XRCC1 peptides
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