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

PRODUCT OVERVIEW

Product Name	Aprataxin and PNK-like factor (Aplf), Recombinant Protein
Full Product Name	Recombinant Mouse Aprataxin and PNK-like factor (Aplf)
Product Gene Name	Aplf recombinant protein
Product Synonym Gene Name	Aplf
Sequence	MPSDFFLQPL DGGPRVPVGP GQTVIGRGPL LGITDKRVSR RHAILEVVDS QLRIKPIHRN PCFYQSSEKS QHSPMETQVW SQLHPGDSFS LLLDKYAFRV FSAESEVEME CTLRNSQMLD EDDILSEMQK SPVVNLPDKT TGASQLQGSP EITKTKCPTI DPMSSSGECR AFSEHQPRPT QRKRILPAWM LAESLSDQSL STPAEGGDKD VIQRSGKAGT CEDRTPGNTS WHGKKRLSPS GNSKSVSAEQ DPGKKCRKAD QEGPGVSSEN VPESSSSNIV KDPDVDIVKT NKQKDGILIE ELGEVSKHKA ATKPTTNEEG ESCARVQSKS PPEKSQGCHP ESSSAPSSPD ALHTDTADPV LGCSEESKVR RTACMYGANC YRRNPLHFQH FSHPGDSDYG EVHGTDEGVI GDRPECPYGA SCYRKNPQHK MEYRHSALPA RVALDEDDDD VGQPSDDEDE EDYEPTDEDS DWHPGKDDEE QEDVDELLKE AKSSLHLKH
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	53,015 Da
Sequence Positions	1-499, 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 Q9D842
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Aplf recombinant protein	MBS1384734 is a recombinant protein targeting Aplf. Also known as Recombinant Mouse 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 #	281427262
NCBI GeneID	72103
NCBI Accession #	NP_001163960.1

UniProt Primary Accession #	Q9D842
UniProt Secondary Accession #	Q8BZL5; Q99LX6
UniProt Related Accession #	Q9D842
GenBank Nucleotide #	NM_001170489.1
NCBI Official Full Name	aprataxin and PNK-like factor isoform 1
NCBI Official Synonym Full Names	aprataxin and PNKP like factor
NCBI Official Symbol	Aplf
NCBI Official Synonym Symbols	AI452191; 2010301N04Rik
UniProt Protein Name	Aprataxin and PNK-like factor
UniProt Synonym Protein Names	Apurinic-apyrimidinic endonuclease APLF
Protein Family	Aprataxin and PNK-like factor
UniProt Gene Name	Aplf
NCBI Protein Information	aprataxin and PNK-like factor
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.** the downregulation of histone chaperone Aprataxin PNK-like factor (APLF) promotes reprogramming by augmenting the expression of E-cadherin.
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