APOBEC1 Complementation Factor (A1CF) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	APOBEC1 complementation factor (A1cf), Recombinant Protein
Full Product Name	Recombinant Mouse APOBEC1 complementation factor (A1cf)
Product Gene Name	A1cf recombinant protein
Product Synonym Gene Name	A1cf
Sequence	MESNHKSGDG LSGTQKEAAL RALVQRTGYS LVQENGQRKY GGPPPGWDST PPERGCEIFI GKLPRDLFED ELIPLCEKIG KIYEMRLMMD FNGNNRGYAF VTFSNKQEAK NAIKQLNNYE IRTGRLLGVC ASVDNCRLFV GGIPKTKKRE EILSEMKKVT EGVVDVIVYP SAADKTKNRG FAFVEYESHR AAAMARRRLL PGRIQLWGHP IAVDWAEPEV EVDEDTMSSV KILYVRNLML STSEEMIEKE FNSIKPGAVE RVKKIRDYAF VHFSNREDAV EAMKALNGKV LDGSPIEVTL AKPVDKDSYV RYTRGTGGRN TMLQGEYTYP LSHVYDPTTT YLGAPVFYTP QAYAAIPSLH FPATKGHLSN RALIRTPSVR EIYMNVPVGA AGVRGLGGRG YLAYTGLGRG YHVKGDKRED KLYDLLPGME LTPMNTVSLK PQGIKLAPQI LEEICQKNNW GQPVYQLHSA IGQDQRQLFL YKVTIPALAS QNPAIHPFIP PKLSAYVDEA KRYAAEHTLQ TLGIPTEGGD AGTTAPTATS ATVFPGYAVP SATAPVSTAQ LKQAVTLGQD LAAYTTYEVY PTFALTTRGD AYGTF
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	42,996 Da
Sequence Positions	1-595, 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 Q5YD48
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for A1cf recombinant protein	Mammalian apolipoprotein B mRNA undergoes site-specific C to U deamination, which is mediated by a multi-component enzyme complex containing a minimal core composed of APOBEC-1 and a complementation factor encoded by this gene. The gene product has three non-identical RNA recognition motifs and belongs to the hnRNP R family of RNA-binding proteins. It has been proposed that this complementation factor functions as an RNA-binding subunit and docks APOBEC-1 to deaminate the upstream cytidine. Studies suggest that the protein may also be involved in other RNA editing or RNA processing events. Alternative splicing occurs at this locus and three full-length transcript variants, encoding three distinct isoforms, have been described. Additional splicing has been observed but the full-length nature of these variants has not been determined.
Other Notes	Small volumes of A1cf 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.
Searchable Terms for A1cf purchase	MBS1314019 is a recombinant protein targeting A1cf. Also known as Recombinant Mouse APOBEC1 complementation factor (A1cf). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for A1cf. It may not necessarily be applicable to this product.

NCBI GI #	124487289
NCBI GeneID	69865
NCBI Accession #	NP_001074543.1
UniProt Primary Accession #	Q5YD48
UniProt Secondary Accession #	Q5FW55; Q5YD47; E9QJS8
UniProt Related Accession #	Q5YD48
GenBank Nucleotide #	NM_001081074.1
NCBI Official Full Name	APOBEC1 complementation factor
NCBI Official Synonym Full Names	APOBEC1 complementation factor
NCBI Official Symbol	A1cf
NCBI Official Synonym Symbols	ASP; Acf; MCM; mer; ACF64; ACF65; MerCreMer; 1810073H04Rik; Tg(Myh6-cre/Esr1*)1Jmk
UniProt Protein Name	APOBEC1 complementation factor
UniProt Synonym Protein Names	APOBEC1-stimulating protein
Protein Family	APOBEC1 complementation factor
UniProt Gene Name	A1cf
NCBI Protein Information	APOBEC1 complementation factor
UniProt Comments for A1cf	Essential component of the apolipoprotein B mRNA editing enzyme complex which is responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in APOB mRNA. Binds to APOB mRNA and is probably responsible for docking the catalytic subunit, APOBEC1, to the mRNA to allow it to deaminate its target cytosine. The complex also seems to protect the edited APOB mRNA from nonsense-mediated decay ().
Research Articles on A1cf	**1.** Here, we show that partial loss of either APOBEC1 complementation factor (A1CF), the RNA-binding cofactor of APOBEC1 in RNA editing, or Argonaute 2 (AGO2), a key factor in the biogenesis of certain noncoding RNAs, modulates risk for TGCTs and testicular abnormalities in both parent-of-origin and conventional genetic manners.
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