



Recombinant Human APOBEC1 complementation factor (A1CF)

Product Code	CSB-MP001002HU
Abbreviation	A1CF
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NQ94
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MESNHKSGDG LSGTQKEAAL RALVQRTGYS LVQENGQRKY GGPPPGWDAA PPERGCEIFI GKLPDLFED ELIPLCEKIG KIYEMRMMMD FNGNNRGYAF VTFSNKVEAK NAIKQLNNYE IRNGRLLGVC ASVDNCRFLV GGIPKTKKRE EILSEMKKVT EGVVDVIVYP SAADKTKNRG FAFVEYESHR AAAMARRKLL PGRIQLWGHG IAVDWAPEPEV EVDNEDTMSSV KILYVRNLML STSEEMIEKE FNNIKPGAVE RVKKIRDYAF VHFSNREDAV EAMKALNGKV LDGSPIEVTL AKPVDKDSYV RYTRGTGGRG TMLQGEYTYS LGQVYDPTTT YLGAPVFYAP QTYAAIPSLH FPAATKGHLSN RAIIRAPSVR EIYMNVPVGA AGVRGLGGRG YLAYTGLGRG YQVKGDKRED KLYDILPGME LTPMNPVTLK PQGIKLAPQI LEEICQKNNW GQPVYQLHSA IGQDQRQLFL YKITIPALAS QNPAIHPFTP PKLSAFVDEA KTYAAEYTLQ TLGIPTDGGD GTMATAAAAA TAFPGYAVPN ATAPVSAAQL KQAVTLGQDL AAYTTYEVYP TFAVTARGDG YGTF
Source	Mammalian cell
Target Names	A1CF
Protein Names	Recommended name: APOBEC1 complementation factor Alternative name(s): APOBEC1-stimulating protein
Expression Region	1-594
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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