

Datasheet for ABIN7553743 **ADAR Protein (AA 1-1226) (His tag)**



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Quantity:	1 mg
Target:	ADAR
Protein Characteristics:	AA 1-1226
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details	
Purpose:	Custom-made recombinat ADAR Protein expressed in mammalien cells.
Sequence:	MNPRQGYSLS GYYTHPFQGY EHRQLRYQQP GPGSSPSSFL LKQIEFLKGQ LPEAPVIGKQ
	TPSLPPSLPG LRPRFPVLLA SSTRGRQVDI RGVPRGVHLR SQGLQRGFQH PSPRGRSLPQ
	RGVDCLSSHF QELSIYQDQE QRILKFLEEL GEGKATTAHD LSGKLGTPKK EINRVLYSLA
	KKGKLQKEAG TPPLWKIAVS TQAWNQHSGV VRPDGHSQGA PNSDPSLEPE DRNSTSVSED
	LLEPFIAVSA QAWNQHSGVV RPDSHSQGSP NSDPGLEPED SNSTSALEDP LEFLDMAEIK
	EKICDYLFNV SDSSALNLAK NIGLTKARDI NAVLIDMERQ GDVYRQGTTP PIWHLTDKKR
	ERMQIKRNTN SVPETAPAAI PETKRNAEFL TCNIPTSNAS NNMVTTEKVE NGQEPVIKLE
	NRQEARPEPA RLKPPVHYNG PSKAGYVDFE NGQWATDDIP DDLNSIRAAP GEFRAIMEMP
	SFYSHGLPRC SPYKKLTECQ LKNPISGLLE YAQFASQTCE FNMIEQSGPP HEPRFKFQVV
	INGREFPPAE AGSKKVAKQD AAMKAMTILL EEAKAKDSGK SEESSHYSTE KESEKTAESQ
	TPTPSATSFF SGKSPVTTLL ECMHKLGNSC EFRLLSKEGP AHEPKFQYCV AVGAQTFPSV

SAPSKKVAKQ MAAEEAMKAL HGEATNSMAS DNQPEGMISE SLDNLESMMP NKVRKIGELV RYLNTNPVGG LLEYARSHGF AAEFKLVDQS GPPHEPKFVY QAKVGGRWFP AVCAHSKKQG KQEAADAALR VLIGENEKAE RMGFTEVTPV TGASLRRTML LLSRSPEAQP KTLPLTGSTF HDQIAMLSHR CFNTLTNSFQ PSLLGRKILA AIIMKKDSED MGVVVSLGTG NRCVKGDSLS LKGETVNDCH AEIISRRGFI RFLYSELMKY NSQTAKDSIF EPAKGGEKLQ IKKTVSFHLY ISTAPCGDGA LFDKSCSDRA MESTESRHYP VFENPKQGKL RTKVENGEGT IPVESSDIVP TWDGIRLGER LRTMSCSDKI LRWNVLGLQG ALLTHFLQPI YLKSVTLGYL FSQGHLTRAI CCRVTRDGSA FEDGLRHPFI VNHPKVGRVS IYDSKRQSGK TKETSVNWCL ADGYDLEILD GTRGTVDGPR NELSRVSKKN IFLLFKKLCS FRYRRDLLRL SYGEAKKAAR DYETAKNYFK KGLKDMGYGN WISKPQEEKN FYLCPV Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- · Made to order protein from design to production by highly experienced protein experts.
- Protein expressed in mammalien cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:	ADAR
Alternative Name:	ADAR (ADAR Products)
Background: Double-stranded RNA-specific adenosine deaminase (DRADA) (EC 3.5.4.37) (136 kDa dou	

stranded RNA-binding protein) (p136) (Interferon-inducible protein 4) (IFI-4) (K88DSRBP), FUNCTION: Catalyzes the hydrolytic deamination of adenosine to inosine in double-stranded RNA (dsRNA) referred to as A-to-I RNA editing (PubMed:7972084, PubMed:7565688, PubMed:12618436). This may affect gene expression and function in a number of ways that include mRNA translation by changing codons and hence the amino acid sequence of proteins since the translational machinery read the inosine as a guanosine, premRNA splicing by altering splice site recognition sequences, RNA stability by changing sequences involved in nuclease recognition, genetic stability in the case of RNA virus genomes by changing sequences during viral RNA replication, and RNA structure-dependent activities such as microRNA production or targeting or protein-RNA interactions. Can edit both viral and cellular RNAs and can edit RNAs at multiple sites (hyper-editing) or at specific sites (sitespecific editing). Its cellular RNA substrates include: bladder cancer-associated protein (BLCAP), neurotransmitter receptors for glutamate (GRIA2) and serotonin (HTR2C) and GABA receptor (GABRA3). Site-specific RNA editing of transcripts encoding these proteins results in amino acid substitutions which consequently alters their functional activities. Exhibits low-level editing at the GRIA2 Q/R site, but edits efficiently at the R/G site and HOTSPOT1. Its viral RNA substrates include: hepatitis C virus (HCV), vesicular stomatitis virus (VSV), measles virus (MV), hepatitis delta virus (HDV), and human immunodeficiency virus type 1 (HIV-1). Exhibits either a proviral (HDV, MV, VSV and HIV-1) or an antiviral effect (HCV) and this can be editing-dependent (HDV and HCV), editing-independent (VSV and MV) or both (HIV-1). Impairs HCV replication via RNA editing at multiple sites. Enhances the replication of MV, VSV and HIV-1 through an editing-independent mechanism via suppression of EIF2AK2/PKR activation and function. Stimulates both the release and infectivity of HIV-1 viral particles by an editing-dependent mechanism where it associates with viral RNAs and edits adenosines in the 5'UTR and the Rev and Tat coding sequence. Can enhance viral replication of HDV via A-to-I editing at a site designated as amber/W, thereby changing an UAG amber stop codon to an UIG tryptophan (W) codon that permits synthesis of the large delta antigen (L-HDAg) which has a key role in the assembly of viral particles. However, high levels of ADAR1 inhibit HDV replication. {ECO:0000269|PubMed:12618436, ECO:0000269|PubMed:15556947, ECO:0000269|PubMed:15858013, ECO:0000269|PubMed:16120648, ECO:0000269|PubMed:16475990, ECO:0000269|PubMed:17079286, ECO:0000269|PubMed:19605474, ECO:0000269|PubMed:19651874, ECO:0000269|PubMed:19710021, ECO:0000269|PubMed:19908260, ECO:0000269|PubMed:21289159, ECO:0000269|PubMed:22278222, ECO:0000269|PubMed:7565688, ECO:0000269|PubMed:7972084}.

Target Details

Storage Comment:

Expiry Date:

Store at -80°C.

12 months

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Molecular Weight:	136.1 kDa	
UniProt:	P55265	
Pathways:	Protein targeting to Nucleus	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	