

Datasheet for ABIN3092239 ADAR Protein (AA 1-1226) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ADAR
Protein Characteristics:	AA 1-1226
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3092239 | 02/25/2025 | Copyright antibodies-online. All rights reserved. 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 Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

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Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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 double-
	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, pre-
	mRNA 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 (site-
	specific 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}.
Molecular Weight:	136.1 kDa
UniProt:	P55265
UniProt: Pathways:	P55265 Protein targeting to Nucleus
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Application Details

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months