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ADAR Protein (AA 1-1178) (His tag)





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Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | ADAR |
| Protein Characteristics: | AA 1-1178 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ADAR protein is labelled with His tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys) |

Product Details

Sequence:

MSQGFRGPTG VFPHQTQSYL DPSHEHSKWR YPQPQGPESY PRSFQLQQIE FLKGRLPEAP
LIGIQTQSLP PFLPGHWPRF PGPPAQDRQL EIWEFPRSVT LRNQGFHIGP PLPPPHSRGT
PWRGADGLCS HFRELSISQS PEQKVLNRLE ELGEGKATTA HVLARELRIP KRDINRILYS
LEKKGKLHRG RGKPPLWSLV PLSQAWTQPP GVVNPDSCIQ EFPRGEPGLD SEDGDPASDL
EGPSEPLDMA EIKEKICDYL FNVSNSSALN LAKNIGLTKA RDVTSVLIDL ERQGDVYRQG
ATPPIWYLTD KKRERLQMKR STHSAPAPTP TAVPEATRSP SFPACHPPPA GASSSVAASK
RVENGQEPAI KHESRHEARP GPMRLRPHAY HNGPSRAGYV ASENGQWATD DIPDNLNSIH
TAPGEFRAIM EMPSFYSPTL PRCSPYKKLT ECQLKNPVSG LLEYAQFTSQ TCDFNLIEQS
GPSHEPRFKF QVVINGREFP PAEAGSKKVA KQDAAVKAMA ILLREAKAKD SGQPEDLSHC
PMEEDSEKPA EAQAPSSSAT SLFSGKSPVT TLLECMHKLG NSCEFRLLSK EGPAHDPKFQ
YCVAVGAQTF PPVSAPSKKV AKQMAAEEAM KALQEEAASS ADDQSGGANT DSLDESMAPN
KIRRIGELVR YLNTNPVGGL LEYARSHGFA AEFKLIDQSG PPHEPKFVYQ AKVGGRWFPA

VCAHSKKQGK QDAADAALRV LIGESEKAEQ LGFAEVTPVT GASLRRTMLL LSRSPDAHPK
TLPLSGSTFH DQIAMLSHRC FNALTNSFQP SLLGRKILAA IIMKRDPEDM GVVVSLGTGN
RCVKGDSLSL KGETVNDCHA EIISRRGFIR FLYSELMKYN HHTAKNSIFE LARGGEKLQI
KKTVSFHLYI STAPCGDGAL FDKSCSDRAV ESTESRHYPV FENPKQGKLR TKVENGEGTI
PVESSDIVPT WDGIRLGERL RTMSCSDKIL RWNVLGLQGA LLTHFLQPVY LKSVTLGYLF
SQGHLTRAIC CRVTRDGKAF EDGLRYPFIV NHPKVGRVSV YDSKRQSGKT KETSVNWCMA
DGYDLEILDG TRGTVDGPGK ELSRVSKKNI FLQFKKLCSF RARRDLLQLS YGEAKKAARD
YDLAKNYFKK SLRDMGYGNW ISKPOEEKNF YLCPVPND

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Adar Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

Pathways:

| 1 Toddet Details | |
|-------------------|--|
| | Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 μm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |
| Target Details | |
| Target: | ADAR |
| Alternative Name: | Adar (ADAR Products) |
| Background: | Catalyzes the hydrolytic deamination of adenosine to inosine in double-stranded RNA (dsRNA) referred to as A-to-I RNA editing. 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, 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. Does not affect polyomavirus replication but provides protection against virus-induced cytopathic effects. Essential for embryonic development and cell survival and plays a critical role in the maintenance of hematopoietic stem cells. {ECO:0000269 PubMed:15556947, |
| Molecular Weight: | ECO:0000269 PubMed:17079286, ECO:0000269 PubMed:17369310}. 131.4 kDa Including tag. |
| UniProt: | Q99MU3 |
| Dathwaya | Dratain targeting to Nucleus |

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 gurantee though. |
|--------------------|---|
| Comment: | Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| | Store at -80°C. |
| Storage Comment: | Store at -ou C. |

Images

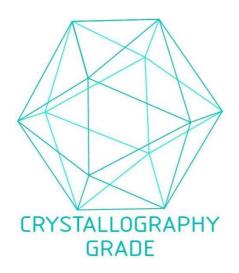


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process