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Datasheet for ABIN3136851 RED1 Protein (AA 1-711) (His tag)

Image



Overview

Quantity:	1 mg
Target:	RED1 (ADARB1)
Protein Characteristics:	AA 1-711
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RED1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MDIEDEENMS SSSTDIKENR NLDNMPPKDS STPGPGEGIP LSNGGGGSTS RKRPLEEGSN
	GHSKYRLKKR RKTPGPVLPK NALMQLNEIK PGLQYMLLSQ TGPVHAPLFV MSVEVNGQVF
	EGSGPTKKKA KLHAAEKALR SFVQFPNASE AHLAMGRTLS VNTDFTSDQA DFPDTLFNGF
	ETPDKSEPPF YVGSNGDDSF SSSGDVSLSA SPVPASLTQP PLPIPPPFPP PSGKNPVMIL
	NELRPGLKYD FLSESGESHA KSFVMSVVVD GQFFEGSGRN KKLAKARAAQ SALATVFNLH
	LDQTPSRQPV LSEGLQLHLP QVLADAVSRL VLGKFSDLTD NFSSPHARRK VLSGVVMTTG
	TDVKDAKVIS VSTGTKCING EYMSDRGLAL NDCHAEIISR RSLLRFLYAQ LELYLNNKED
	QKKSIFQKSE RGGFRLKDTV QFHLYISTSP CGDARIFSPH EPVLEGMTPD SHQLTEPADR
	HPNRKARGQL RTKIESGEGT IPVRSNASIQ TWDGVLQGER LLTMSCSDKI ARWNVVGIQG
	SLLSIFVEPI YFSSIILGSL YHGDHLSRAM YQRISNIEDL PPLYTLNKPL LSGISNAEAR
	QPGKAPNFSV NWTVGDATIE VINATTGKDE LGRPSRLCKH ALYCRWMRVH GKVPPHLLRT
	KITKPTTYHE SKLAAREYQA AKARLFTAFI KAGLGAWVEK PTEQDQFSFT P

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	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 Adarb1 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.
	 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

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Target:	RED1 (ADARB1)
Alternative Name:	Adarb1 (ADARB1 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 GRIK2) and serotonin (HTR2C),
	GABA receptor (GABRA3) and potassium voltage-gated channel (KCNA1). Site-specific RNA
	editing of transcripts encoding these proteins results in amino acid substitutions which
	consequently alter their functional activities. Edits GRIA2 at both the Q/R and R/G sites
	efficiently but converts the adenosine in hotspot1 much less efficiently. Can inhibit cell
	proliferation and migration and can stimulate exocytosis. {ECO:0000269 PubMed:17369310}.
Molecular Weight:	79.0 kDa Including tag.
UniProt:	Q91ZS8
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
Llandling	
Handling	

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Handling		
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	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

Images

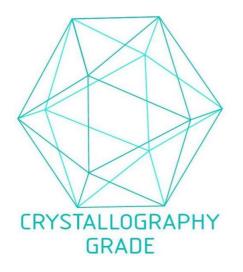


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process