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Datasheet for ABIN3094969 RBM8A Protein (AA 2-174) (His tag)

Image



Overview

Quantity:	1 mg
Target:	RBM8A
Protein Characteristics:	AA 2-174
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RBM8A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)
Product Details	
Sequence:	ADVLDLHEAG GEDFAMDEDG DESIHKLKEK AKKRKGRGFG SEEGSRARMR EDYDSVEQDG
	DEPGPQRSVE GWILFVTGVH EEATEEDIHD KFAEYGEIKN IHLNLDRRTG YLKGYTLVEY
	ETYKEAQAAM EGLNGQDLMG QPISVDWCFV RGPPKGKRRG GRRRSRSPDR RRR
	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. Human RBM8A Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade. State of the art elegerithm used for placemid design (Cone synthesis).
	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

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	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 bacterial culture:
	 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Farget:	RBM8A
Alternative Name:	RBM8A (RBM8A Products)
Background:	Core component of the splicing-dependent multiprotein exon junction complex (EJC) deposited
	at splice junctions on mRNAs. The EJC is a dynamic structure consisting of core proteins and
	several peripheral nuclear and cytoplasmic associated factors that join the complex only
	transiently either during EJC assembly or during subsequent mRNA metabolism. The EJC

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	marks the position of the exon-exon junction in the mature mRNA for the gene expression
	machinery and the core components remain bound to spliced mRNAs throughout all stages of
	mRNA metabolism thereby influencing downstream processes including nuclear mRNA export,
	subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay
	(NMD). The MAGOH-RBM8A heterodimer inhibits the ATPase activity of EIF4A3, thereby
	trapping the ATP-bound EJC core onto spliced mRNA in a stable conformation. The MAGOH-
	RBM8A heterodimer interacts with the EJC key regulator PYM1 leading to EJC disassembly in
	the cytoplasm and translation enhancement of EJC-bearing spliced mRNAs by recruiting them
	to the ribosomal 48S preinitiation complex. Its removal from cytoplasmic mRNAs requires
	translation initiation from EJC-bearing spliced mRNAs. Associates preferentially with mRNAs
	produced by splicing. Does not interact with pre-mRNAs, introns, or mRNAs produced from
	intronless cDNAs. Associates with both nuclear mRNAs and newly exported cytoplasmic
	mRNAs. The MAGOH-RBM8A heterodimer is a component of the nonsense mediated decay
	(NMD) pathway. Involved in the splicing modulation of BCL2L1/Bcl-X (and probably other
	apoptotic genes), specifically inhibits formation of proapoptotic isoforms such as Bcl-X(S), the
	function is different from the established EJC assembly. {ECO:0000269 PubMed:12121612,
	EC0:0000269 PubMed:12718880, EC0:0000269 PubMed:12730685,
	EC0:0000269 PubMed:16209946, EC0:0000269 PubMed:19409878,
	ECO:0000269 PubMed:22203037}.
Molecular Weight:	20.7 kDa Including tag.
UniProt:	Q9Y5S9
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:	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

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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
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