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Datasheet for ABIN3136510 EIF3B Protein (AA 1-803) (His tag)

Image



Overview

Quantity:	1 mg
Target:	EIF3B
Protein Characteristics:	AA 1-803
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3B protein is labelled with His tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MQDAENVAVP EAAEERAEPA RQQPASESPP TDEAAGSGGS EVGQTEDAEE DAEAGPEPEV
	RAKPAAQSEE ETATSPAASP TPQSAERSPS QEPSAPGKAE AVGEQARGHP SAGAEEEGGS
	DGSAAEAEPR ALENGEADEP SFSDPEDFVD DVSEEELLGD VLKDRPQEAD GIDSVIVVDN
	VPQVGPDRLE KLKNVIHKIF SKFGKIINDY YPEEDGKTKG YIFLEYASPA HAVDAVKNAD
	GYKLDKQHTF RVNLFTDFDK YMTISDEWDI PEKQPFKDLG NLRYWLEEAE CRDQYSVIFE
	SGDRTSIFWN DVKDPVSIEE RARWTETYVR WSPKGTYLAT FHQRGIALWG GDKFKQIQRF
	SHQGVQLIDF SPCERYLVTF SPLMDTQDDP QAIIIWDILT GHKKRGFHCE SSAHWPIFKW
	SHDGKFFARM TLDTLSIYET PSMGLLDKKS LKISGIKDFS WSPGGNIIAF WVPEDKDIPA
	RVTLMQLPTR QEIRVRNLFN VVDCKLHWQK NGDYLCVKVD RTPKGTQGVV TNFEIFRMRE
	KQVPVDVVEM KETIIAFAWE PNGSKFAVLH GEAPRISVSF YHVKSNGKIE LIKMFDKQQA
	NTIFWSPQGQ FVVLAGLRSM NGALAFVDTS DCTVMNIAEH YMASDVEWDP TGRYVVTSVS
	WWSHKVDNAY WLWTFQGRLL QKNNKDRFCQ LLWRPRPPTL LSQDQIKQIK KDLKKYSKIF

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	EQKDRLSQSK ASKELVERRR TMMEDFRQYR KMAQELYMKQ KNERLELRGG VDTDELDSNV
	DDWEEETIEF FVTEEVIPLG SQE
	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 Eif3b 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:
	 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.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	EIF3B
Alternative Name:	Eif3b (EIF3B Products)
Background:	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. {ECO:0000269 PubMed:12038979}.
Molecular Weight:	92.3 kDa Including tag.
UniProt:	Q8JZQ9
Pathways:	Ribonucleoprotein Complex Subunit Organization
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.

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Handling

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

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