.-online.com antibodies

Datasheet for ABIN3093010 EIF2S3 Protein (AA 2-472) (His tag)

Image



Overview

Quantity:	1 mg
	' ''''g
Target:	EIF2S3
Protein Characteristics:	AA 2-472
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2S3 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

	Human EIF2S3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	PVCTEVGEKI ALSRRVEKHW RLIGWGQIRR GVTIKPTVDD D
	EISYFLLRRL LGVRTEGDKK AAKVQKLSKN EVLMVNIGSL STGGRVSAVK ADLGKIVLTN
	KPIFSKIVSL FAEHNDLQYA APGGLIGVGT KIDPTLCRAD RMVGQVLGAV GALPEIFTEL
	SEPRLIVIRS FDVNKPGCEV DDLKGGVAGG SILKGVLKVG QEIEVRPGIV SKDSEGKLMC
	LKHILILQNK IDLVKESQAK EQYEQILAFV QGTVAEGAPI IPISAQLKYN IEVVCEYIVK KIPVPPRDFT
	GNFKLVRHVS FVDCPGHDIL MATMLNGAAV MDAALLLIAG NESCPQPQTS EHLAAIEIMK
	SGVHTVRFKN ELERNITIKL GYANAKIYKL DDPSCPRPEC YRSCGSSTPD EFPTDIPGTK
Sequence:	AGGEAGVTLG QPHLSRQDLT TLDVTKLTPL SHEVISRQAT INIGTIGHVA HGKSTVVKAI

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 1/4 | Product datasheet for ABIN3093010 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

	This protain is a mode to order protain and will be made for the first time for your order. Our
	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.
	2. 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:	EIF2S3
Alternative Name:	EIF2S3 (EIF2S3 Products)

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 2/4 | Product datasheet for ABIN3093010 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details

Background:	As a subunit of eukaryotic initiation factor 2 (eIF2), involved in the early steps of protein
	synthesis. In the presence of GTP, eIF2 forms a ternary complex with initiator tRNA Met-tRNAi
	and then recruits the 40S ribosomal complex, a step that determines the rate of protein
	translation. This step is followed by mRNA binding to form the 43S pre-initiation complex.
	Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by
	hydrolysis of the GTP bound to eIF2 and release of an eIF2-GDP binary complex. In order for
	eIF2 to recycle and catalyze another round of initiation, the GDP bound to eIF2 must exchange
	with GTP by way of a reaction catalyzed by eIF2B (By similarity). Along with its paralog on
	chromosome Y, may contribute to spermatogenesis up to the round spermatid stage (By
	similarity). {ECO:0000250, ECO:0000250 UniProtKB:Q9Z0N1}.
Molecular Weight:	51.9 kDa Including tag.
UniProt:	P41091

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
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)

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 3/4 | Product datasheet for ABIN3093010 | 09/11/2023 | Copyright antibodies-online. All rights reserved.



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

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 4/4 | Product datasheet for ABIN3093010 | 09/11/2023 | Copyright antibodies-online. All rights reserved.