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Datasheet for ABIN3126602 ERO1L Protein (AA 24-464) (His tag)





Overview

Quantity:	1 mg
Target:	ER01L
Protein Characteristics:	AA 24-464
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ER01L protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Ero1a Protein (raised in Insect Cells) purified by multi-step, protein-specific process to
Characteristics	Made in Cormany, from design to production, by highly synarished protein synarts
	special request, please contact us.
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	GRISTSVREL ENFRHLLQNV H
	IMDCVGCFKC RLWGKLQTQG LGTALKILFS EKLIANMPES GPSYEFQLTR QEIVSLFNAF
	QLFTGNKVQD AENKALLLEI LHEIKSFPLH FDENSFFAGD KNEAHKLKED FRLHFRNISR
	LQDTWLEKKW GHNVTEFQQR FDGILTEGEG PRRLRNLYFL YLIELRALSK VLPFFERPDF
	EENCFKPQTI QRPLASGRGK SKENTFYNWL EGLCVEKRAF YRLISGLHAS INVHLSARYL
	SEETQKAVLQ WTKHDDSSDS FCEIDDIQSP DAEYVDLLLN PERYTGYKGP DAWRIWSVIY
	PCPFWNDINQ CGRRDCAVKP CHSDEVPDGI KSASYKYSEE ANRIEECEQA ERLGAVDESL
Sequence:	EERRPETAAQ RCFCQVSGYL DDCTCDVETI DKFNNYRLFP RLQKLLESDY FRYYKVNLKK

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	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. 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:	ER01L

Product Details

Alternative Name: Ero1a (ERO1L Products)

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Pookaround	Ovideraduation involved in disulfide hand formation in the anderlearnin ratio due. Efficiently
Background:	Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB
	to sustain additional rounds of disulfide formation. Following P4HB reoxidation, passes its
	electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species
	(ROS) in the cell. Required for the proper folding of immunoglobulins (By similarity). Plays an
	important role in ER stress-induced, CHOP-dependent apoptosis by activating the inositol 1,4,5-
	trisphosphate receptor IP3R1. {EC0:0000250, EC0:0000269 PubMed:19752026,
	ECO:0000269 PubMed:20308425}.
Molecular Weight:	52.6 kDa Including tag.
UniProt:	Q8R180
Pathways:	Peptide Hormone Metabolism, ER-Nucleus Signaling, Brown Fat Cell Differentiation
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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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

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