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Datasheet for ABIN3132972 Calreticulin Protein (CALR) (AA 18-416) (His tag)



Overview

010111011	
Quantity:	1 mg
Target:	Calreticulin (CALR)
Protein Characteristics:	AA 18-416
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Calreticulin protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	DPAIYFKEQF LDGDAWTNRW VESKHKSDFG KFVLSSGKFY GDLEKDKGLQ TSQDARFYAL
	SAKFEPFSNK GQTLVVQFTV KHEQNIDCGG GYVKLFPSGL DQKDMHGDSE YNIMFGPDIC
	GPGTKKVHVI FNYKGKNVLI NKDIRCKDDE FTHLYTLIVR PDNTYEVKID NSQVESGSLE
	DDWDFLPPKK IKDPDAAKPE DWDERAKIDD PTDSKPEDWD KPEHIPDPDA KKPEDWDEEM
	DGEWEPPVIQ NPEYKGEWKP RQIDNPDYKG TWIHPEIDNP EYSPDANIYA YDSFAVLGLD

LWQVKSGTIF DNFLITNDEA YAEEFGNETW GVTKAAEKQM KDKQDEEQRL KEEEEDKKRK

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 Calr Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

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EEEEAEDKED DDDRDEDEDE EDEKEEDEEE SPGQAKDEL

	• 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:	Calreticulin (CALR)
Alternative Name:	Calr (CALR Products)

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Target Details

Background:	Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in
	the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts
	transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the
	ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. Involved
	in maternal gene expression regulation. May participate in oocyte maturation via the regulation
	of calcium homeostasis (By similarity). {ECO:0000250, ECO:0000269 PubMed:20880849,
	ECO:0000269 PubMed:21652723}.
Molecular Weight:	47.3 kDa Including tag.
UniProt:	P14211
Pathways:	Retinoic Acid Receptor Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling
	Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Nuclear Hormone
	Receptor Binding, ER-Nucleus Signaling, Unfolded Protein Response
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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