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Datasheet for ABIN3137101 SUN1 Protein (AA 437-913) (His tag)





Overview

Quantity:	1 mg
Target:	SUN1
Protein Characteristics:	AA 437-913
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUN1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	GNFFSLLPVL NWTAMQPTQR VDDSKGMHRP GPLPPSPPPK VDHKASQWPQ ESDMGQKVAS
	LSAQCHNHDE RLAELTVLLQ KLQIRVDQVD DGREGLSLWV KNVVGQHLQE MGTIEPPDAK
	TDFMTFHHDH EVRLSNLEDV LRKLTEKSEA IQKELEETKL KAGSRDEEQP LLDRVQHLEL
	ELNLLKSQLS DWQHLKTSCE QAGARIQETV QLMFSEDQQG GSLEWLLEKL SSRFVSKDEL
	QVLLHDLELK LLQNITHHIT VTGQAPTSEA IVSAVNQAGI SGITEAQAHI IVNNALKLYS
	QDKTGMVDFA LESGGGSILS TRCSETYETK TALLSLFGVP LWYFSQSPRV VIQPDIYPGN
	CWAFKGSQGY LVVRLSMKIY PTTFTMEHIP KTLSPTGNIS SAPKDFAVYG LETEYQEEGQ
	PLGRFTYDQE GDSLQMFHTL ERPDQAFQIV ELRVLSNWGH PEYTCLYRFR VHGEPIQ
	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 Sun1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to

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Target Details	
Grade:	Crystallography grade
Endotoxin Level:	Protein is endotoxin free.
Sterility:	0.22 µm filtered
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Purification:	 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. 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. 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.
	 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.

Product Details

Alternative Name:

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Sun1 (SUN1 Products)

Target Details

Background:	Component of SUN-protein-containing multivariate complexes also called LINC complexes
	which link the nucleoskeleton and cytoskeleton by providing versatile outer nuclear membrane
	attachment sites for cytoskeletal filaments. Required for interkinetic nuclear migration (INM)
	and essential for nucleokinesis and centrosome-nucleus coupling during radial neuronal
	migration in the cerebral cortex and during glial migration. Anchors chromosome movement in
	the prophase of meiosis and is involved in selective gene expression of coding and non-coding
	RNAs needed for gametogenesis. Required for telomere attachment to nuclear envelope and
	gametogenesis. Helps to define the distribution of nuclear pore complexes (NPCs). Required for
	efficient localization of SYNE4 in the nuclear envelope. {ECO:0000269 PubMed:16380439,
	ECO:0000269 PubMed:17543860, ECO:0000269 PubMed:19211677,
	ECO:0000269 PubMed:19509342, ECO:0000269 PubMed:19874786,
	EC0:0000269 PubMed:23348741}.
Molecular Weight:	54.8 kDa Including tag.
UniProt:	Q9D666
Pathways:	Maintenance of Protein Location

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.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images

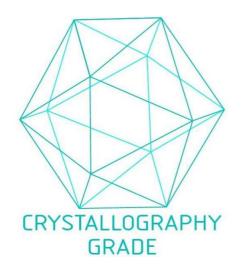


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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