antibodies

Datasheet for ABIN3093856 SMCR7L Protein (AA 47-463) (His tag)

Image



Overview

Quantity:	1 mg
Target:	SMCR7L
Protein Characteristics:	AA 47-463
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMCR7L protein is labelled with His tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	KRMYDRAISA PTSPTRLSHS GKRSWEEPNW MGSPRLLNRD MKTGLSRSLQ TLPTDSSTFD
	TDTFCPPRPK PVARKGQVDL KKSRLRMSLQ EKLLTYYRNR AAIPAGEQAR AKQAAVDICA
	ELRSFLRAKL PDMPLRDMYL SGSLYDDLQV VTADHIQLIV PLVLEQNLWS CIPGEDTIMN
	VPGFFLVRRE NPEYFPRGSS YWDRCVVGGY LSPKTVADTF EKVVAGSINW PAIGSLLDYV
	IRPAPPPEAL TLEVQYERDK HLFIDFLPSV TLGDTVLVAK PHRLAQYDNL WRLSLRPAET
	ARLRALDQAD SGCRSLCLKI LKAICKSTPA LGHLTASQLT NVILHLAQEE ADWSPDMLAD
	RFLQALRGLI SYLEAGVLPS ALNPKVNLFA ELTPEEIDEL GYTLYCSLSE PEVLLQT
	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.
	• Human MIEF1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.

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	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:	SMCR7L
Alternative Name:	MIEF1 (SMCR7L Products)

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Target Details

Expiry Date:

Background:	Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the
	recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the
	mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins.
	Regulates DNM1L GTPase activity and DNM1L oligomerization. Binds ADP and can also bind
	GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L
	GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase
	activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as
	opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not
	require ADP for its function in recruiting DNM1L. {ECO:0000269 PubMed:21508961,
	EC0:0000269 PubMed:21701560, EC0:0000269 PubMed:23283981,
	EC0:0000269 PubMed:23530241, EC0:0000269 PubMed:23921378,
	EC0:0000269 PubMed:24515348}.
Molecular Weight:	47.8 kDa Including tag.
UniProt:	Q9NQG6
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.

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Unlimited (if stored properly)

Images

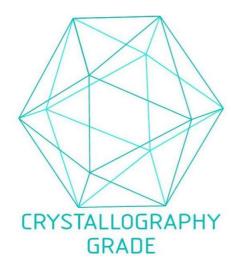


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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