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Datasheet for ABIN3135869 SMG5 Protein (AA 2-1017) (His tag)

I Image



Overview

Quantity:	1 mg
Target:	SMG5
Protein Characteristics:	AA 2-1017
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMG5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	SQGPPPGESS EPEAKVLHTK RLYRAVVEAV HRLDLILCNK AAYQEVFKPE NVSLRNKLRE
	LCVKLMFLHP VDYGRKAEEL LWRKVYYEVI QLIKTNKKHI HSRSTLECAY RTHLVAGIGF
	YQHLLLYIQS HYQLELQCCI DWTHVTDPLM GFKKPVSASG KEMDWAQMAC HRCLVYLGDL
	SRYQNELAGV DTELLAERFY YQALSVAPQI GMPFNQLGTL AGSKYYNVEA MYCYLRCIQS
	EVSFEGAYGN LKRLYDKAAK MYHQLKKSET RKLSPSKKRC KDIKRLLVNF MYLQSLLQPK
	SSSVDSELTS LCQSVLEDFN LCLFYLPSSP NLGLTNEDEE ECESGYAFLP DLLIFQMAII
	CLMGVHSLKR AGSKHYSAAI AFTLALFSHL INHVNIRLQA ELEEGENPVS AFQSDGTDEP
	ESKEALEKEE PEPEPPTVVP QADEGRKSRK HSRLSCLRRR RRHHPPKAGD DSDLSEGFES
	DSSHDSAQAS DGSDSGSDKS LEGRGTAFDA ETDSEMNSQE SRSDLEDMED EEGTRSPAQE
	PPQARSEVPD SLNGPLGPSE ASIASNLQAM STQMFQTKRC FRLAPTFSNL LLQPTTEPNS
	VASHRPCVNG DMDKPLEPAS EDGSESEGSE SSNRSCRNER SLQEKLQALM AEGLLPAVKV
	FLDWLRTNPD LIIVCAQSSQ SLWNRLSVLL NLLPASAELQ DSGLALCSEV QGLLEGCELP

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	DLPASLLLPE DMALRNLPPL RAAHRRFNFD ADRPLLSALE ESVVRICCIR SFGHFVARLQ
	GSILQFNPEV GIFVSIAQSE QESLLQQAQA QFRMAEEEAR RNRLMRDMAQ LRLQLEVSQL
	EGSLQQPKAQ SAMSPYLIPD TQALCYHLPL IRQLATSGRF IIIIPRTVID GLDLLKKEQP
	GARDGIRYLE AEFKKGNRYI RCQKEVGKSF ERHKLKRQDA DAWTLYKILD SCRQLTLAQG
	AGEEDPSGMV TIITGLHLDS PSALSGPMQA ALQAAAHASV DVKNVLDFYR QWKEIG
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Smg5 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to 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.
	 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.

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Product Details	
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:	SMG5
Alternative Name:	Smg5 (SMG5 Products)
Background:	Plays a role in nonsense-mediated mRNA decay. Does not have RNase activity by itself. Promotes dephosphorylation of UPF1. Together with SMG7 is thought provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation. Necessary for TERT activity (By similarity). {ECO:0000250}.
Molecular Weight:	114.9 kDa Including tag.
UniProt:	Q6ZPY2
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.

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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



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

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