

Datasheet for ABIN3134575
SMG6 Protein (AA 1-1418) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	SMG6
Protein Characteristics:	AA 1-1418
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMG6 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MAEGLERVRI SASELRGILA TLAPQAGSRE NMKELKEPRQ RKDNRPPDLE IYKPGLSRLR NRPKTKEASG NEEFKDEIVN DRDSSAVGND TQLIQVCKEL DSQQQNGPID AENSAQETF PKTVGLEDRS LKIIKRSKPP DLQIYQPGR LQTITKESAG RADEEEILNQ VEQLRIEED CKGEAIKEEV NNKPKTEIE KHQSNDRVRT AKGEKGKKIE KEGESKKVAD DSVPGKPGSV KRYRSRKRR NRYRTCSTSS AGSNNSAEGA GLTDNGCRRR RQDRAKERPR LKKQVLSST DSLDEDRVDE PDVLGSRSS ERKKHLERNW SGCGEQKS NGKENRSALR VTFDAETMSK DSPVVRVSKD NVDRMKSDKG PSSGGKGSEK QELRHPRQEL RDRGRGILIL PAHTALSVSS SGSPSTPLG PRLFGSGSK GRSWGRGGT TRRLWDPNNP DQKPALKSQT PQLHFLDTDD EISPTSWGDS RQAQASYKF QNSDNPYYYP RTPGPASQYP YAGYSPLQYP VGPTNGMYPG AYYPGYPAPS GQYVCSPLPA STMSPEEIEQ HVRNMQQQEL HRLLRVADNQ ELQSNLLSR DRISTEGMEK MAQLRTELLQ LYERCILLDI EFSDSQNVDQ ILWKNAFYQV IEKFRQLLKD PENSEPEQIR NRLLELLDEG SDFFDSELLQK LQVTKFKLE DYMDGLAIRS KPLRKTVKYA</p>
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LISAQRSMIC QGDISRYREQ ANDTANYGKA RSWYLKAQHI APKNGRPYNQ LALLAVYTRR
KLDVAVYYMR SLAASNPILT AKESLMSLFE ETKRKAQME KKQHEEFDMS PDKWRKGKKS
TFRHVGGDDTT RLEIWIHP SH SRSAQGTESG KDSEQENGLG SLSPSDLNKR FILSFLHAHG
KLFTRIGMET FPAVAEKVLK EFQVLLQHSP SPIGSTRMLQ LMTINMFAVH NSQLKDCFSE
ECSRVIQEQ A ASLGLAMFSL LVQRCTCLLK DSAKAQLSSP EDQEDQDDIK VSSFVPLKE
LLPSVKVWSD WMLGYPDTWN PPPTSLDLPL QVAVDVWSTL ADFCNILTAV NQSEVPLYKD
PDDDLTLLIL EEDRLLSGFV PLLAAPQDPC YVEKTSKVI AADCKRVTVL KYFLEALCGQ
EEPLLAFKGG KYVSVAPVPD TMGKEMGSQE GKQLEDEEED VVIEDFEEDS EAEGSGGEDD
IRELRAKKLA LARKIAEQQR RQEKIQAVLE DQSQMRQMEL EIRPLFLVPD TNGFIDLHAS
LARLLESRKY ILVVPLIVIN ELDGLAKGQE TDHRAGGYAR VVQEKARKSI EFLERRFESR
DSCLRALTSR GNELESIAFR SEDITGQLGN NDDLILSCCL HYCKDKAKDY MPTSKEEPIR
LLREVLLTD DRNLRVKALT RNVPVRDIPA FLTWAQVG

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 Smg6 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 receipt 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.

Product Details

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">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:	SMG6
Alternative Name:	Smg6 (SMG6 Products)
Background:	Component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. May have a general role in telomere regulation. Promotes in vitro the ability of TERT to elongate telomeres. Overexpression induces telomere uncapping, chromosomal end-to-end fusions (telomeric DNA persists at the fusion points) and did not perturb TRF2 telomeric localization. Binds to the single-stranded 5'-(GTGTGG)(4)GTGT-3' telomeric DNA, but not to a telomerase RNA template component (TER) (By similarity). {ECO:0000250}., Plays a role in nonsense-mediated mRNA decay. Is thought to provide a link to the mRNA degradation machinery as it has endonuclease activity required to initiate NMD, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation. Degrades single-stranded RNA (ssRNA), but not ssDNA or dsRNA (By similarity). {ECO:0000250}.
Molecular Weight:	161.4 kDa Including tag.
UniProt:	P61406

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 guarantee though.
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Application Details

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)

Images



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