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Datasheet for ABIN3136728

SMG8 Protein (AA 1-991) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	SMG8
Protein Characteristics:	AA 1-991
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMG8 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MAGPVSLREL LMGASAWLGS ESPGGPSAEG GGNAAGTPEP PWREDEICVV GIFGKTALRL
NSEKFSLVNT VCDRQVFPLF HHQDPGDPGT GIKTKAVSVG EAGGAGDPGA AAGDSLRRGM
ATAEGNRAEP GPQDFSLLQA YYNQESKVLV LILTSICDNS QLLRACRALQ SGEAGGGLSL
PHAETHEFWK HQEKLQCLSL LYLFSVCHIL LLVHPTCSFD ITYDRVFRAL DGLRQKVLPL
LKTAIKDCPV GKDWKLNCRP CPPRLLFLFQ LNGALKVEPP RSQDTAHPDK PKKHSPKRRR
QHALEDQIYR IFRKSRVLTN QSINCLFTVP ANQAFVYIVP GSQEEDPIGM LLDQLRSHCT
VKDPESLLVP APLSGPRRYQ AMRQHSRQQL SFHIDSSTSS SSGQLVDFTL REFLWQHVEL
VLSKKGFDSD VGRNPQPSHF ELPTYQKWIS AAKLYEVAI DGKEEDLGSP TGEELTSKILS
SIKVLGFLD IDTKFSENRC QKALPMAHSA YQSNLPHNYT MIVHKNQLAQ ALRVYSQHAR
GPAFHKYAMQ LHEDCYKFWG NGHQLCEERS LTDQHCVHKF HSLPKSGEKP EADRNPVPLY
HNSRARSTGA CNCGRKQAPR DDPFDIKAAN YDFYQLLEEK CCGKLDHINF PVFEPSTPDP
APAKNEPSPA PPDSDAEKLE EKEPQTQGES TSLSLALSLG QSTDSLGTYP ADPQAGGDNP

EVHGQGEGKS EKRPNLVDRQ ASTVEYLPGM LHSNCPKGLL PKFSSWSLVK LGPAKSYNFH
TGLDQQGFVP GTNYLMPWDI VIRTRAEDDG DLDTNSWPAP NKAIPGKRSA VVMGRGRRRD
DIARAFVGFY YEDSRGRRFM CSGPDKVMKV MGSGBKESAL KALNSDMPLY ILSSSQGRGL
KPHYAQLMRL FVVVPDAPLQ IILMPQVQPG PPPCPVFYPE KQEITLPPDG LWVLRFPYAY
VTERGPCFPP KENVQLMSYK VLRGVLKAVT Q

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 Smg8 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.

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.

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:	SMG8
Alternative Name:	Smg8 (SMG8 Products)
Background:	Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Is recruited by release factors to stalled ribosomes together with SMG1 and SMG9 (forming the SMG1C protein kinase complex) and, in the SMG1C complex, is required to mediate the recruitment of SMG1 to the ribosome:SURF complex and to suppress SMG1 kinase activity until the ribosome:SURF complex locates the exon junction complex (EJC). Acts as a regulator of kinase activity (By similarity). {ECO:0000250}.
Molecular Weight:	110.6 kDa Including tag.
UniProt:	Q8VE18

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.
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.

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