Datasheet for ABIN3136860

SUPT16H Protein (AA 2-1047) (His tag)

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Overview

Quantity:	1 mg
Target:	SUPT16H
Protein Characteristics:	AA 2-1047
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUPT16H protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	AVTLDKDAYY RRVKRLYSNW RKGEDEYASI DAIVVSVGVD EEIVYAKSTA LQTWLFGYEL TDTIMVFCDD KIIFMASKKK VEFLKQIANT KGNENANGAP AITLLVREKN ESNKSSFDKM IDAIKESKSG KKIGVFSKDK FPGEFMKSWS DCLNKEGFDK VDISAVVAYT IAVKEDGELN LMKKAASITS EVFNKFFKER VMEIVDADEK VRHSKLAESV EKAIEEKKYL AGADPSTVEM CYPPIIQSGG NYNLKFSVVS DKNHMHFGAI TCAMGIRFKS YCSNLVRTLM VDPTQEVQEN YNFLLQLQEE LLKELRHGVK ICDVYNSVMD VVKKQKPELL NKITKNLGFG MGIEFREGSL VINSKNQYKL KKGMVFSINL GFSDLTNKEG KKPEEKTYAL FIGDTVLVDE DGPATILTSV KKKVKNVGIF LKNEDDEEEE EEKDEAEDLL GRGSRAALLT ERTRNEMTAE EKRRAHQKEL AAQLNEEAKR RLTEQKGEQQ IQKARKSNVS YKNPSLMPKE PHIREMKIYI DKKYETVIMP VFGIATPFHI ATIKNISMSV EGDYTYLRIN FYCPGSALGR NEGNIFPNPE ATFVKEITYR ASNMKAPGEQ TVPALNLQNA FRIIKEVQKR YKTREAEEKE KEGIVKQDSL VINLNRSNPK LKDLYIRPNI AQKRMQGSLE AHVNGFRFTS VRGDKVDILY NNIKHALFQP CDGEMIIVLH

FHLKNAVMFG KKRHTDVQFY TEVGEITTDL GKHQHMHDRD DLYAEQMERE MRHKLKTAFK NFIEKVEALT KEELEFEVPF RDLGFNGAPY RSTCLLQPTS SALVNATEWP PFVVTLDEVE LIHFERVQFH LKNFDMVIVY KDYSKKVTMI NAIPVASLDP IKEWLNSCDL KYTEGVQSLN WTKIMKTIVD DPEGFFEQGG WSFLEPEGEG SDAEDGDSES EIEDETFNPS EDDYEEEEED SDEDYSSEAE ESDYSKESLG SEEESGKDWD ELEEEARKAD RESRYEEEEE QSRSMSRKRK ASVHSSGRGS NRGSRHSSAP PKKKRK

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 Supt16h 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.
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:	SUPT16H
Alternative Name:	Supt16h (SUPT16H Products)
Background:	Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is probably also involved in phosphorylation of 'Ser-392' of p53/TP53 via its association with CK2 (casein kinase II). {ECO:0000250, ECO:0000269|PubMed:23364797}.
Molecular Weight:	120.6 kDa Including tag.
UniProt:	Q920B9
Pathways:	Chromatin Binding

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.
Expiry Date:	Unlimited (if stored properly)

Images

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