Datasheet for ABIN3132047

STAG3 Protein (AA 1-1240) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	STAG3
Protein Characteristics:	AA 1-1240
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAG3 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	MPTLWSPSTQ HHGSSSGSES SPLQKSVRRA QMALSPCSSS ILPCDDRDSQ GTAEWDSPST NEDSDFEDSL RRNVKKRAAK QPPKAVPAAK HRKKQSRIVS SGNGKNESVP STNYLFDAVK AARSCMQSLV DEWLDNYKQD ENAGFLELIN FFIRACGCKS TVTPEMFKTM SNSEIIQHLT EEFNEDSGDY PLTAPGPSWK KFQGSFCEFV KTLVYQCQYS LLYDGFPMDD LISLLIGLSD SQVRAFRHTS TLAAMKLMTS LVKVALQLSL HKDNNQRQYE AERNKGPEQR APERLESLLE KRKEFQENQE DIEGMMNAIF RGVFVHRYRD ILPEIRAICI EEIGYWMQSY STSFLNDSYL KYIGWTLHDK HKEVRLKCVK ALAGLYSNQE LSLRMELFTN RFKDRMVSMV MDRECEVAVE AIRLLTLILK NMEGVLTSAD CEKIYSIVYI SNRAMASSAG EFVYWKIFHP ECGAKAVSDR ERRRSPQAQK TFIYLLLAFF MESEHHNHAA YLVDSLWDCA GSYLKDWESL TNLLLQKDQN LGDMQERMLI EILVSSARQA AEGHPPVGRI TGKKSLTAKE RKLQAYDKMK LAEHLIPLLP QLLAKFSADA ENVAPLLQLL SYFDLSIYCT QRLEKHLELL LQQLQEVVVK HVEPEVLEAA AHALYLLCKP EFTFFSRVDF ARSQLVDFLT DRFQQELDDL MQSSFLDEDE VYSLTATLKR

	LSAFYNAHDL TRWEISEPCS RLLRKAVDTG EVPHQVILPA LTLVYFSILW TVTHISESTS HKQLMSLKKR MVAFCELCQS CLSDVDPEIQ EQAFVLLSDL LLIFSPQMIV GGRDFLRPLV FFPEATLQSE LASFLMDHVF LQPGELGNGQ SQEDHVQIEL LHQRRRLLAG FCKLLLYGVL ELDAASDVFK HYNKFYEDYG DIIKETLTRA RQIDRCQCSR ILLLSLKQLY TELIQEQGPQ GLTELPAFIE MRDLARRFAL SFGPQQLHNR DLVVMLHKEG IKFSLSELPP AGSSHEPPNL AFLELLSEFS PRLFHQDKRL LLSYLEKCLQ RVSKAPNHPW GPVTTYCHSL HPLEITAEAS PRGPPHSKKR CVEGPCRPQE EESSSQEESL QLNSGPTTPT LTSTAVKRKQ SLRTVGKKQK GRPGPGPGPG PELICSQQLL GTQRLKMSSA PCFQIRCDPS GSGLGKQLTR LSLMEEDEEE ELRLLDEEWQ RGDKMLHSPS SPSEHGLDLL DTTELNMEDF **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 Stag3 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

Product Details

	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:	STAG3
Alternative Name:	Stag3 (STAG3 Products)
Background:	Meiosis specific component of cohesin complex. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I. {ECO:0000269|PubMed:11483963, ECO:0000269|PubMed:24597867}.
Molecular Weight:	142.1 kDa Including tag.
UniProt:	O70576

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

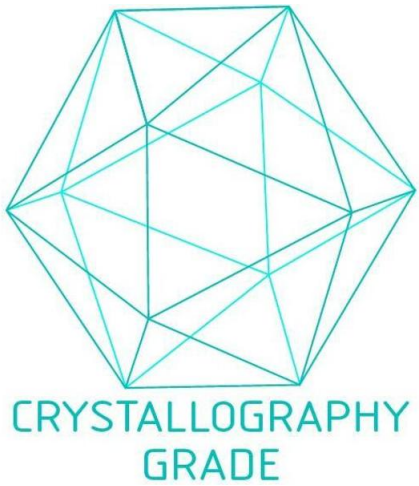

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process