

Datasheet for ABIN3135715 KIF24 Protein (AA 1-1356) (His tag)



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Overview

Quantity:	1 mg
Target:	KIF24
Protein Characteristics:	AA 1-1356
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF24 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MASWLYECLC EAELAQYYPH FTALGLQKID ELAKVTMKDY SRLGVHDMND RKRLFQLIKI</p> <p>IKIMQEEDKA LGIPEHPLQA SSLYTKPREF RSGPRRQLHF DSPSASKDKM ANNETGSLSN</p> <p>FSVDEQKSTY LKVLEHMLPD DSQCQTKIRA PDASAADASM QTETNAPLFS SNYFSPQLGN</p> <p>CDIPVIQRVS HVSGYNYGIP HSCVRQITSE NPWTEMEKIR VCVRKRPLGV REVRERGEVNV</p> <p>ITVEDKETLL VHEKKEAVDL TQYLQHVFY FDEVFGEACS NQDVYLKTAH PLIQHIFNGG</p> <p>SATCFAYGQT GAGKTYTMIG THQNPGLYAL AAKDIFRQLK VSQSRRNLFV WISFYEIYCG</p> <p>QLYDLLNRRK RLFAREDSKH VVQIAGLREL QVDSVELLLQ VILKGSKERS TGATGVNADS</p> <p>SRSHAIQIQ IKDSAKRTFG RISFIDLAGS ERAADARDS RQTKMEGAEI NQSLALKEC</p> <p>IRALDQEHTH TPFQSKLTQ VLKDSFIGNA KTCMIANISP SHIATEHTLN TLRYADRVKE</p> <p>LKKGVKCCAS ATSQNQTSAN ASPKRIQSSP VTLPGDKCSP KKVKLGLQQS LTVAPGPTKV</p> <p>KAHPLASHVP NVPFTSGPKT PGKKSSSRGS PTPewDMKAS PRKGTTTRSGH SIKKGAESAP</p> <p>LCSEKSQIGS KIAVGWEGRA SDPGEGLLRV RLPTRGKKVQ PVQPVQKQLL SRPRLLANSH</p>
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HLATQDSKV GTPAGLAPEA WTNPIQQKE REEHLRFYHQ QFQQPPLLKQ KLNYPQLQRL
LCQHRPSEGR LQSETGFPLH SNPENRDGAQ AEDLDDSDFS EDSFSHGSSQ PAMKQGSTAL
ERSGSSFFLH QDREHSPEEQ AAERQQCLLF SSETDGSKKR PADSWVYSRD PIISHRRGAL
SQSHSPSMVC PDWSKEEDSA SSGPSPKDNR AQKPSSSQVD FVHHQKPGEA QVSDIRLEAF
TSEVPEQAEG SLSSPSPENG LSFPLSHVAV SGSPDQRDRV CTPLREVSEN RVTHTPGRVN
SSTPFQEDSG EQIQMCSANA SGLMAPLTMS LLETACHEDL SSLEQIAQDG AGYGFMAEIV
GGPAAGHTVP SYDQEAALPV SSATECLWLS SSPPDNRPSG DLPALSPSPI HQHSPDKLPG
REAYQTRRPI LLPENHMGSK LYDDRAEETE LGGSLTFPRK PSSNIHAGVP YSTPFLTSTCT
GSSNGVGRPW AQERKHPTGV SCQELVSSTD SNKPHYNEDI AWLRHRPISR CLDSDSPVVP
SCSSKALRTY CPLTPEQAQQ VIIRAHKEQL DEMAELDLKE ETLMTQMDSN DFEDFVTQLD
EIMALKSRCI QSLRSQLQLY LTSHRPAAAP ERTVVS

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 Kif24 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:

Product Details

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: KIF24

Alternative Name: Kif24 ([KIF24 Products](#))

Background: Microtubule-dependent motor protein that acts as a negative regulator of ciliogenesis by mediating recruitment of CCP110 to mother centriole in cycling cells, leading to restrict nucleation of cilia at centrioles. Mediates depolymerization of microtubules of centriolar origin, possibly to suppress aberrant cilia formation. Following activation by NEK2 involved in disassembly of primary cilium during G2/M phase but does not disassemble fully formed ciliary axonemes. As cilium assembly and disassembly is proposed to coexist in a dynamic equilibrium may suppress nascent cilium assembly and, potentially, ciliar re-assembly in cells that have already disassembled their cilia ensuring the completion of cilium removal in the later stages of the cell cycle (By similarity). {ECO:0000250|UniProtKB:Q5T7B8}.

Molecular Weight: 151.2 kDa Including tag.

UniProt: [Q6NWW5](#)

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

Application Details

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