

Datasheet for ABIN3093379

## KIF24 Protein (AA 1-1368) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KIF24
Protein Characteristics:	AA 1-1368
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF24 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MASWLYECLC EAELAQYYSH FTALGLQKID ELAKITMKDY SKLGVHDMND RKRLFQLIKI</p> <p>IKIMQEEDKA VSIPERHLQT SSLRIKSQEL RSGPRRQLNF DSPADNKDRN ASNDGFEMCS</p> <p>LSDFSANEQK STYLVKLEHM LPDDSQYHTK TGILNATAGD SYVQTEISTS LFSPNYLSAI</p> <p>LGDCDPIIQ RISHVSGYNY GIPHSCIRQN TSEKQNPWTE MEKIRVCVRK RPLGMREVRR</p> <p>GEINIITVED KETLLVHEKK EAVDLTQYIL QHVFYFDEVF GEACTIONQDVY MKTTHPLIQH</p> <p>IFNGGNATCF AYQGTGAGKT YTMIGTHENP GLYALAAKDI FRQLEVSQPR KHLFVWISFY</p> <p>EIYCGQLYDL LNRRKRLFAR EDSKHMVQIV GLQELQVDSV ELLLEVILKG SKERSTGATG</p> <p>VNADSSRSA VIQIQKDSA KRTFGRISFI DLAGSERAAD ARDSRQTKM EGAEINQSLL</p> <p>ALKECIRALD QEHTHTPFRQ SKLTQVLKDS FIGNAKTCMI ANISPSHVAT EHTLNLTRYA</p> <p>DRVKELKKG KCCTSVTSRN RTSGNSSPKR IQSSPGALSE DKCSPKKVKL GFQQSLTVAA</p> <p>PGSTRGKVHP LTSHPPNIPF TSAPKVSGKR GSGRGSPSQE WVIHASPVKG TVRSGHVAKK</p>

KPEESAPLCS EKNRMGNKTV LGWESRASGP GEGLVRGKLS TKCKKVQTVQ PVQKQLVSRV  
ELSFGNAHHR AEYSQDSQRG TPARPASEAW TNIPPHQKER EEHLRFYHQQ FQQPPLLQKQ  
LKYQPLKRSL RQYRPPEGQL TNETPPLFHS YSENHDGAQV EELDDSDSFSE DSFSHISSQR  
ATKQRNTLEN SEDSFFLHQT WGQGPEKQVA ERQQSLFSSP RTGDKKDLTK SWVDSRDPIN  
HRRALDHSC SPSKGPVDWS RENSTSSGPS PRDSLAEKPY CSQVDFIYRQ ERGGGSSFDL  
RKDAQSEVS GENEGLNLPSP EEDGFTISLS HVAVPGSPDQ RDTVTTPLRE VSADGPIQVT  
STVKNGHAVP GEDPRGQLGT HAEYASGLMS PLTMSLLENP DNEGSPPEQ LVQDGATHSL  
VAESTGGPVV SHTVPSGDQE AALPVSSATR HLWLSSSPPD NKPGGDLPAL SPSPIRQHPA  
DKLPSREADL GEACQSRETV LFSHEHMGSE QYDADAEETG LDGSWGFPKG PFTTIHMGVP  
HSGPTLTPT RT GSSDVADQLW AQERKHPTL GWQEFGLSTD PIKLPCNSEN VTWLKPRPIS  
RCLARPSSPL VPSCSPKTAG TLRQPTLEQA QQVVIRAHQE QLDEMAELGF KEETLMSQLA  
SNDFEDFVTQ LDEIMVLKSK CIQSLRSQQL LYLTCHGPTA APEGTVPS

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

#### Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to

## Product Details

produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	KIF24
Alternative Name:	KIF24 ( <a href="#">KIF24 Products</a> )
Background:	<p>Kinesin-like protein KIF24,FUNCTION: 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 (PubMed:21620453). 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 (PubMed:26290419). Plays an important role in recruiting MPHOSPH9, a negative regulator of cilia formation to the distal end of mother centriole (PubMed:30375385).</p> <p>{ECO:0000269 PubMed:21620453, ECO:0000269 PubMed:26290419, ECO:0000269 PubMed:30375385}.</p>
Molecular Weight:	151.9 kDa
UniProt:	<a href="#">Q5T7B8</a>

## 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:** ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Buffer:** The buffer composition is at the discretion of the manufacturer.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

**Handling Advice:** Avoid repeated freeze-thaw cycles.

**Storage:** -80 °C

**Storage Comment:** Store at -80°C.

**Expiry Date:** 12 months