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Datasheet for ABIN3093456 KIF18B Protein (AA 1-864) (His tag)

Image



Overview

Quantity:	1 mg
Target:	KIF18B
Protein Characteristics:	AA 1-864
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF18B protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MSHPGVTTVM AVEDSTLQVV VRVRPPTPRE LDSQRRPVVQ VVDERVLVFN PEEPDGGFPG
	LKWGGTHDGP KKKGKDLTFV FDRVFGEAAT QQDVFQHTTH SVLDSFLQGY NCSVFAYGAT
	GAGKTHTMLG REGDPGIMYL TTVELYRRLE ARQQEKHFEV LISYQEVYNE QIHDLLEPKG
	PLAIREDPDK GVVVQGLSFH QPASAEQLLE ILTRGNRNRT QHPTDANATS SRSHAIFQIF
	VKQQDRVPGL TQAVQVAKMS LIDLAGSERA SSTHAKGERL REGANINRSL LALINVLNAL
	ADAKGRKTHV PYRDSKLTRL LKDSLGGNCR TVMIAAISPS SLTYEDTYNT LKYADRAKEI
	RLSLKSNVTS LDCHISQYAT ICQQLQAEVA ALRKKLQVYE GGGQPPPQDL PGSPKSGPPP
	EHLPSSPLPP HPPSQPCTPE LPAGPRALQE ESLGMEAQVE RAMEGNSSDQ EQSPEDEDEG
	PAEEVPTQMP EQNPTHALPE SPRLTLQPKP VVGHFSAREL DGDRSKQLAL KVLCVAQRQY
	SLLQAANLLT PDMITEFETL QQLVQEEKIE PGAEALRTSG LARGAPLAQE LCSESKPPGY
	TGPVTRTMAR RLSGPLHTLG IPPGPNCTPA QGSRWPMEKK RRRPSALEAD SPMAPKRGTK
	RQRQSFLPCL RRGSLPDTQP SQGPSTPKGE RASSPCHSPR VCPATVIKSR VPLGPSAMQN

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	CSTPLALPTR DLNATFDLSE EPPSKPSFHE CIGWDKIPQE LSRLDQPFIP RAPVPLFTMK
	GPKPTSSLPG TSACKKKRVA SSSVSHGRSR IARLPSSTLK RPAGPLVLPE LPLSPLCPSN
	RRNGKDLIRV GRALSAGNGV TKVS
	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. Human KIF18B 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:
	 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

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Product Details	
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:KIF18BAlternative Name:KIF18B (KIF18B Products)Background:In complex with KIF2C, constitutes the major microtubule plus-end depol mitotic cells. Its major role may be to transport KIF2C and/or MAPRE1 ale (EC0:0000269)PubMed:20600703, EC0:0000269)PubMed:21820309).Molecular Weight:95.2 kDa Including tag.UniProt:Q86Y91Application DetailsIn addition to the applications listed above we expect the protein to work as well. As the protein has not been tested for functional studies yet we of though.Comment:In cases in which it is highly likely that the recombinant protein with the d insoluble our protein lab may suggest a higher molecular weight tag (e.g. increase solubility. We will discuss all possible options with you in detail t receive your protein of interest.Restrictions:For Research Use only	for functional studies
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Restrictions: For Research Use only	GST-tag) instead to
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)	

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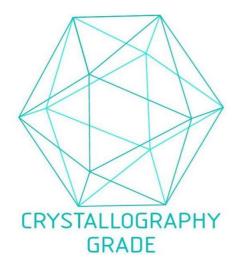


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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