Datasheet for ABIN3133597

KIF5C Protein (AA 1-956) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	KIF5C
Protein Characteristics:	AA 1-956
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIF5C protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MADPAECSIK VMCRFRPLNE AEILRGDKFI PKFKGEETVV IGQGKPYVFD RVLPPNTTQE QVYNACAKQI VKDVLEGYNG TIFAYGQTSS GKTHTMEGKL HDPQLMGIIP RIAHDIFDHI YSMDENLEFH IKVSYFEIYL DKIRDLLDVS KTNLAVHEDK NRVPYVKGCT ERFVSSPEEV MDVIDEGKAN RHVAVTNMNE HSSRSHSIFL INIKQENVET EKKLSGKLYL VDLAGSEKVS KTGAEGAVLD EAKNINKSLS ALGNVISALA EGTKTHVPYR DSKMTRILQD SLGGNCRTTI VICCSPSVFN EAETKSTLMF GQRAKTIKNT VSVNLELTAE EWKKKYEKEK EKNKALKSVL QHLEMELNRW RNGEAVPEDE QISAKDQKSL EPCDNTPIID NITPVVDGIS AEKEKYDEEI TSLYRQLDDK DDEINQQSQL AEKLKQQMLD QDELLASTRR DYEKIQEELT RLQIENEAAK DEVKEVLQAL EELAVNYDQK SQEVEDKTRA NEQLTDELAQ KTTTLTTTQR ELSQLQELSN HQKKRATEIL NLLLKDLGEI GGIIGTNDVK TLADVNGVIE EEFTMARLYI SKMKSEVKSL VNRSKQLESA QMDSNRKMNA SERELAACQL LISQHEAKIK SLTDYMQNME QKRRQLEESQ

DSLSEELAKL RAQEKMHEVS FQDKEKEHLT RLQDAEEVKK ALEQQMESHR EAHQKQLSRL RDEIEEKQRI IDEIRDLNQK LQLEQERLSS DYNKLKIEDQ EREVKLEKLL LLNDKREQAR EDLKGLEETV SRELQTLHNL RKLFVQDLTT RVKKSVELDS DDGGGSAAQK QKISFLENNL EQLTKVHKQL VRDNADLRCE LPKLEKRLRA TAERVKALES ALKEAKENAM RDRKRYQQEV DRIKEAVRAK NMARRAHSAQ IAKPIRPGHY PASSPTAVHA VRGGGGGSSN STHYQK

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.

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 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.

Product Details

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:	KIF5C
Alternative Name:	Kif5c (KIF5C Products)
Background:	Kinesin heavy chain isoform 5C (EC 3.6.4.-) (Kinesin heavy chain neuron-specific 2) (Kinesin-1),FUNCTION: Microtubule-associated force-producing protein that may play a role in organelle transport. Has ATPase activity (By similarity). Involved in synaptic transmission (By similarity). Mediates dendritic trafficking of mRNAs (PubMed:19608740). Required for anterograde axonal transportation of MAPK8IP3/JIP3 which is essential for MAPK8IP3/JIP3 function in axon elongation (By similarity). {ECO:0000250|UniProtKB:O60282, ECO:0000250|UniProtKB:P56536, ECO:0000269|PubMed:19608740}.
Molecular Weight:	109.3 kDa
UniProt:	P28738

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

Application Details

	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