

Datasheet for ABIN3129414 EFHC1 Protein (AA 1-648) (Strep Tag)



Overview

Quantity:	250 µg
Target:	EFHC1
Protein Characteristics:	AA 1-648
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EFHC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGTNPVHGLP FLPGSSFTDS TKTAFHRSQT LNYRNGYAVV RRPTMGIGGD RLHYNQLSQA
	ELDELANKAP ILTYGPLKQA PLAEFVPAHV AFDKKVLKFS AYFQEDVPIS MEEHYRIRHV
	NIYYYLEDDS MSVIEPVVEN SGIPQGKLIK RQRFTKNDMG DHYHWKDLNR GINLTVYGKT
	FRIVDCDRFT QDFLESQGIE LNPSEKIPLD PYTQLRKEPV RKYVTPSDFD QLKQFLTFDK
	QVLRFYAIWD DTDSLFGECR HYIIHYYLMD DTVEIREVHE RNNGRDPFPL LMNRQRMPKV
	LVENAKNFPK CVLEISDQEV LEWYTAKDFI VGKPLTILGR TFFIYDCDPF TRQFYKDKFG
	MPDLPPVDVT KKEPPPVKQE LPPYNGYGLI EDSAQNCFAL IPKAPRKDVV KMLMNDNKVL
	RYLAALESPI PEDKDRRFVF SYFLATDMIS IFEPPVRNSG IIGGKFLGRT KVVKSFSPVD
	NPIYYSPSDF FIGAVIEVFG HRFVILDTDE YVLKYMESNA SQYSPEALAS IQNRIQKPEL
	PAPELESKQA TGEPMVQGTE ESKVQDLDAL IDQIHMHLKY NSYKENLRET FQMYDKDESG
	YVDRETFFKI CETLNVPVDD SLIKELIRLC THGEGRINYY NFVRAFSN

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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 posttranslational 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.

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).

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Product Details

Grade:

custom-made

Target Details

Target:	EFHC1
Alternative Name:	Efhc1 (EFHC1 Products)
Background:	EF-hand domain-containing protein 1 (Myoclonin-1),FUNCTION: Microtubule-associated protein which regulates cell division and neuronal migration during cortical development. Necessary for mitotic spindle organization. Necessary for radial and tangential cell migration during brain development, possibly acting as a regulator of cell morphology and process formation during migration (By similarity). May enhance calcium influx through CACNA1E and stimulate programmed cell death. Overexpression of EFHC1 in hippocampal primary culture neurons induced apoptosis (PubMed:15258581). Microtubule inner protein (MIP) part of the dynein- decorated doublet microtubules (DMTs) in cilia axoneme, which is required for motile cilia beating (By similarity). {ECO:0000250 UniProtKB:E1BKH1, ECO:0000250 UniProtKB:Q5JVL4, ECO:0000269 PubMed:15258581}.
Molecular Weight:	75.1 kDa
UniProt:	Q9D9T8
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 Lise only

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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