

Datasheet for ABIN3082372 ECAT1 Protein (AA 1-217) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ECAT1 (KHDC3L)
Protein Characteristics:	AA 1-217
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ECAT1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MDAPRRFPTL VQLMQPKAMP VEVLGHLPKR FSWFHSEFLK NPKVVRLEVW LVEKIFGRGG
	ERIPHVQGMS QILIHVNRLD PNGEAEILVF GRPSYQEDTI KMIMNLADYH RQLQAKGSGK
	ALAQDVATQK AETQRSSIEV REAGTQRSVE VREAGTQRSV EVQEVGTQGS PVEVQEAGTQ
	QSLQAANKSG TQRSPEAASK AVTQRFREDA RDPVTRL
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressior
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressior system, a different complexity of the protein could make another tag necessary. In case you
Characteristics:	system, a different complexity of the protein could make another tag necessary. In case you
Characteristics:	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us. Key Benefits:

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• 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).
Grade:	custom-made

Target Details

Target:	ECAT1 (KHDC3L)
Alternative Name:	KHDC3L (KHDC3L Products)
Background:	KH domain-containing protein 3 (ES cell-associated transcript 1 protein) (KHDC3-like

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oocytes which in turn are responsible for symmetric division of zygotes via the regulation of mitotic spindle formation and positioning (By similarity). Ensures proper spindle assembly by regulating the localization of AURKA via RHOA signaling and of PLK1 via a RHOA-independent process (By similarity). Required for the localization of MAD2L1 to kinetochores to enable spindle assembly checkpoint function (By similarity). Promotes neural stem cell neurogenesis and neuronal differentiation in the hippocampus (By similarity). May regulate normal development of learning, memory and anxiety (By similarity). Capable of binding RNA (By
role for zygotes to progress beyond the first embryonic cell divisions via regulation of actin dynamics (By similarity). Required for maintenance of euploidy during cleavage-stage embryogenesis (By similarity). Required for the formation of F-actin cytoplasmic lattices in
modulates downstream ATM or ATR activation (PubMed:31609975). Activation of ATM or ATR in response to DNA double-strand breaks may be cell-type specific (By similarity). Its role in DNA double-strand break repair is independent of its role in restarting stalled replication forks (By similarity). As a member of the subcortical maternal complex (SCMC), plays an essential
protein),FUNCTION: As part of the OOEP-KHDC3 scaffold, recruits BLM and TRIM25 to DNA replication forks, thereby promoting the ubiquitination of BLM by TRIM25, enhancing BLM retainment at replication forks and therefore promoting stalled replication fork restart (By similarity). Regulates homologous recombination-mediated DNA repair via recruitment of RAD51 to sites of DNA double-strand breaks, and sustainment of PARP1 activity, which in turn

UniProt:

Molecular Weight:

Q587J8

24.3 kDa

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

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Application Details	
	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
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
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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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.