Datasheet for ABIN3136965

ERC1 Protein (AA 1-1120) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ERC1
Protein Characteristics:	AA 1-1120
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ERC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MYGSARSVGK VEPSSQSPGR SPRLPRSPRL GHRRTNSTGG SSGNSVGGGS GKTLSMENIQ SLNAAYATSG PMYLSDHENV GAETPKSTMT LGRSGGRLPY GVRMTAMGSS PNIASSGVAS DTIAFGEHHL PPVSMASTVP HSLRQARDNT IMDLQTQLKE VLRENDLLRK DVEVKESKLS SSMNSIKTFW SPELKKERAL RKDEASKITI WKEQYRVVQE ENQHMQMTIQ ALQDELRIQR DLNQLFQQDS SSRTGEPCVA ELTEENFQRL HAEHERQAKE LFLLRKTLEE MELRIETQKQ TLNARDESIK KLLEMLQSKG LSAKATEEDH ERTRRLAEAE MHVHHLESLL EQKEKENNML REEMHRRFEN APDSAKTKAL QTVIEMKDSK ISSMERGLRD LEEEIQMLKS NGALSSEERE EEMKQMEVYR SHSKFMKNKV EQLKEELSSK DAQGEELKKR AAGLQSEIGQ VKQELSRKDT ELLALQTKLE TLTNQFSDSK QHIEVLKESL TAKEQRAAIL QTEVDALRLR LEEKETMLNK KTKQIQDMAE EKGTQAGEIH DLKDMLDVKE RKVNVLQKKI ENLQEQLRDK EKQMSSLKER VKSLQADTTN TDTALTTLEE ALADKERTIE RLKEQRDRDE REKQEEIDTY KKDLKDLREK

VSLLQGDLSE KEASLLDIKE HASSLASSGL KKDSRLKTLE IALEQKKEEC LKMESQLKKA HEATLEARAS PEMSDRIQQL EREISRYKDE SSKAQTEVDR LLEILKEVEN EKNDKDKKIA ELESLTSRQV KDQNKKVANL KHKEQVEKKK SAQMLEEARR REDSLSDSSQ QLQDSLRKKD DRIEELEEAL RESVQITAER EMVLAQEESA RTNAEKQVEE LLMAMEKVKQ ELESMKAKLS STQQSLAEKE THLTNLRAER RKHLEEVLEM KQEALLAAIS EKDANIALLE LSSSKKKTQE EVAALKREKD RLVQQLKQQT QNRMKLMADN YEDDHFRSSR SNQTNHKPSP DQIIQPLLEL DQNRSKLKLY IGHLTALCHD RDPLILRGLT PPASYNADGE QAAWENELQQ MTQEQLQNEL EKVEGDNAEL QEFANTILQQ IADHCPDILE QVVNALEESS

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:

Product Details

- 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:	ERC1
Alternative Name:	Erc1 (ERC1 Products)
Background:	ELKS/Rab6-interacting/CAST family member 1 (ERC-1) (CAZ-associated structural protein 2) (CAST2) (Rab6-interacting protein 2),FUNCTION: Regulatory subunit of the IKK complex. Probably recruits IkappaBalpha/NFKBIA to the complex (By similarity). May be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. May be involved in vesicle trafficking at the CAZ. May be involved in Rab-6 regulated endosomes to Golgi transport. {ECO:0000250}.
Molecular Weight:	128.3 kDa
UniProt:	Q99MI1
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

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

Application Details

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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