Datasheet for ABIN3136715

HIP1 Protein (AA 1-1029) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	HIP1
Protein Characteristics:	AA 1-1029
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HIP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDRMASSMKQ VSNPLPKVLS RRGVGAGMEA AERESFERTQ TVSVNKAINT QEVAVKEKHA RTCILGTHHE KGAQTFWSVV NRLPLSSNAM LCWKFCHVFH KLLRDGHPNV LKDSLRYKNE LSDMSRMWGH LSEGYGQLCS IYLKLLRTRM EYHTKNPRFP GNLQMSDRQL DEAGESDVNN FFQLTVEMFD YLECELNLFQ TVFNSLDMSR SVSVTTAGQC RLAPLIQVIL DCSHLYDYTV KLLFKLHSCL PADTLQGHRD RFMEQFTKLK DLFQRSSNLQ YFKRLIQIPQ LPENPPNFLR ASALSEHISP VVVIPAEVSS PDSEPVLEKD DLMDMDASQQ TLFDNKFDDV FGSSLSSDPF NFNNQNGVNK DEKDHLIERL YREISGLTGQ LDNMKIESQR AMLQLKGRVS ELEAELAEQQ HLGRQAMDDC EFLRTELDEL KRQREDTEKA QRSLTEIERK AQANEQRYSK LKEKYSELVQ NHADLLRKNA EVTKQVSVAR QAQVDLEREK KELADSFART QEQQDVLENL KHELATSRQE LQVLHSNLET SAQSEAKWLT QIAELEKEQG SLATVAAQRE EELSALRDQL ESTQIKLAGA QESMCQQVKD QRKTLLAGIR KAAEREIQEA LSQLEEPTLI SCAGSTDHLL SKVSSVSSCL

EQLEKNGSQY LACPEDISEL LHSITLLAHL TGDTIIQGSA TSLRAPPEPA DSLTEACRQY GRETLAYLSS LEEEGTMENA DVTALRNCLS RVKTLGEELL PRGLDIKQEE LGDLVDKEMA ATSAAIEAAT TRIEEILSKS RAGDTGVKLE VNERILGSCT SLMQAIKVLV VASKDLQKEI VESGRGTASP KEFYAKNSRW TEGLISASKA VGWGATIMVD AADLVVQGKG KFEELMVCSR EIAASTAQLV AASKVKANKG SLNLTQLQQA SRGVNQATAA VVASTISGKS QIEETDSMDF SSMTLTQIKR QEMDSQVRVL ELENDLQKER QKLGELRKKH YELAGVAEGW EEGTEASPST VQEAIPDKE

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.

Product Details

	• 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:	HIP1
Alternative Name:	Hip1 (HIP1 Products)
Background:	Huntingtin-interacting protein 1 (HIP-1) (Huntingtin-interacting protein I) (HIP-I),FUNCTION: Plays a role in clathrin-mediated endocytosis and trafficking (PubMed:11577110). Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner (PubMed:12839988, PubMed:17329427). Regulates presynaptic nerve terminal activity (PubMed:17928447). Enhances androgen receptor (AR)-mediated transcription (By similarity). May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway (By similarity). Binds 3-phosphoinositides (via ENTH domain) (By similarity). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis (By similarity). May play a functional role in the cell filament networks (By similarity). May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors (PubMed:11604514, PubMed:14998932, PubMed:16967501, PubMed:17928447). {ECO:0000250|UniProtKB:O00291, ECO:0000269|PubMed:11577110, ECO:0000269|PubMed:11604514, ECO:0000269|PubMed:12839988, ECO:0000269|PubMed:14998932, ECO:0000269|PubMed:16967501, ECO:0000269|PubMed:17329427}.
Molecular Weight:	115.2 kDa
UniProt:	Q8VD75
Pathways:	Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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 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