

Datasheet for ABIN3092971

HIP1 Protein (AA 1-1037) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	HIP1
Protein Characteristics:	AA 1-1037
Origin:	Human
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:	<p>MDRMASMKQ VPNPLPKVLS RRGVGAGLEA AERESFERTQ TVSINKAINT QEVAVKEKHA</p> <p>RTCILGTHHE KGAQTFWSVV NRLPLSSNAV LCWKFCFVHF KLLRDGHPNV LKDSLRYRNE</p> <p>LSDMSRMWGH LSEGYGQLCS IYLKLLRTKM EYHTKNPRFP GNLQMSDRQL DEAGESDVNN</p> <p>FFQLTVEMFD YLECELNLFQ TVFNSLDMSR SVSVTAAGQC RLAPLIQVIL DCSHLYDYTV</p> <p>KLLFKLHSC L PADTLQGHRD RFMEQFTKLK DLFYRSSNLQ YFKRLIQIPQ LPENPPNFLR</p> <p>ASALSEHISP VVIPAEASS PDSEPVLEKD DLMDMDASQQ NLFDNKFDDI FGSSFSSDPF</p> <p>NFNSQNGVNK DEKDHLIERL YREISGLKAQ LENMKTESQR VVLQLKGHVS ELEADLAEQQ</p> <p>HLRQQAADDC EFLRAELDEL RRQREDTEKA QRSLSEIERK AQANEQRYSK LKEKYSSELVQ</p> <p>NHADLLRKNA EVTKQVSMAR QAQVDLEREK KEEDSLERI SDQGQRKTQE QLEVLESCLKQ</p> <p>ELATSQRELQ VLQGSLETS A QSEANWAAEF AELEKERDSL VSGAAHREEE LSALRKELQD</p> <p>TQLKLASTEE SMCQLAKDQR KMLLVGSRKA AEQVIQDALN QLEEPPLISC AGSADHLLST</p>

VTSISSCIEQ LEKSWSQYLA CPEDISGLLH SITLLAHLTS DAIAHGATTC LRAPPEPADS
LTEACKQYGR ETLAYLASLE EEGSLENADS TAMRNCLSKI KAIGEELLPR GLDIKQEELG
DLVDKEMAAT SAAIETATAR IEEMLSKSRA GDTGVKLEVN ERILGCCTSL MQAIQVLIVA
SKDLQREIVE SGRGTASPKE FYAKNSRWTE GLISASKAVG WGATVMVDAA DLVVQGRGKF
EELMVCSHEI AASTAQLVAA SKVKADKDSP NLAQLQQASR GVNQATAGVV ASTISGKSQI
EETDNMDFSS MTLTQIKRQE MDSQVRVLEL ENELQKERQK LGELRKKHYE LAGVAEGWEE
GTEASPPTLQ EVVTEKE

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:	<p>Huntingtin-interacting protein 1 (HIP-1) (Huntingtin-interacting protein I) (HIP-I),FUNCTION: Plays a role in clathrin-mediated endocytosis and trafficking (PubMed:11532990, PubMed:11577110, PubMed:11889126). Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner (By similarity). Regulates presynaptic nerve terminal activity (By similarity). Enhances androgen receptor (AR)-mediated transcription (PubMed:16027218). May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway (PubMed:11007801). Binds 3-phosphoinositides (via ENTH domain) (PubMed:14732715). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis (PubMed:14732715). May play a functional role in the cell filament networks (PubMed:18790740). May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors (PubMed:11007801, PubMed:12163454).</p> <p>{ECO:0000250 UniProtKB:Q8VD75, ECO:0000269 PubMed:11007801, ECO:0000269 PubMed:11532990, ECO:0000269 PubMed:11577110, ECO:0000269 PubMed:11889126, ECO:0000269 PubMed:12163454, ECO:0000269 PubMed:14732715, ECO:0000269 PubMed:16027218, ECO:0000269 PubMed:18790740, ECO:0000269 PubMed:9147654}.</p>
Molecular Weight:	116.2 kDa
UniProt:	000291
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 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