Datasheet for ABIN3136715

# HIP1 Protein (AA 1-1029) (His tag)

1 Image

Go to Product page

## Overview

| | |
|---|---|
| Quantity: | 1 mg |
| Target: | HIP1 |
| Protein Characteristics: | AA 1-1029 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HIP1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |

## Product Details

| | |
|---|---|
| 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<br>**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.** |
| Characteristics: | • Made in Germany - from design to production - by highly experienced protein experts.<br>• Mouse Hip1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.<br>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.<br>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).<br>When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.<br>The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.<br>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: | Two step purification of proteins expressed in baculovirus infected SF9 insect cells:<br>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.<br>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |

## Product Details

| | |
|---|---|
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

## Target Details

| | |
|---|---|
| Target: | HIP1 |
| Alternative Name: | Hip1 (HIP1 Products) |
| Background: | Plays a role in clathrin-mediated endocytosis and trafficking. Involved in regulating AMPA receptor trafficking in the central nervous system in an NMDA-dependent manner. Enhances androgen receptor (AR)-mediated transcription. May act as a proapoptotic protein that induces cell death by acting through the intrinsic apoptosis pathway. Binds 3-phosphoinositides (via ENTH domain). May act through the ENTH domain to promote cell survival by stabilizing receptor tyrosine kinases following ligand-induced endocytosis. May play a functional role in the cell filament networks. May be required for differentiation, proliferation, and/or survival of somatic and germline progenitors. {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: | 116.2 kDa Including tag. |
| 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 as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though. |
| Comment: | Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |

## Application Details

| | |
|---|---|
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |

## Images


**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process