Datasheet for ABIN3092027

CYFIP1 Protein (AA 1-1253) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CYFIP1
Protein Characteristics:	AA 1-1253
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYFIP1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MAAQVTLEDA LSNVDLLEEL PLPDQQPCIE PPPSSLLYQP NFNTNFEDRN AFVTGIARYI EQATVHSSMN EMLEEGQEYA VMLYTWRSCS RAIPQVKCNE QPNRVEIYEK TVEVLEPEVT KLMNFMYFQR NAIERFCGEV RRLCHAERRK DFVSEAYLIT LGKFINMFAV LDELKNMKCS VKNDHSAYKR AAQFLRKMAD PQSIQESQNL SMFLANHNKI TQSLQQQLEV ISGYEELLAD IVNLCVDYYE NRMYLTPSEK HMLLKVMGFG LYLMDGSVSN IYKLDAKKRI NLSKIDKYFK QLQVVPLFGD MQIELARYIK TSAHYEENKS RWTCTSSGSS PQYNICEQMI QIREDHMRFI SELARYSNSE VVTGSGRQEA QKTDAEYRKL FDLALQGLQL LSQWSAHVME VYSWKLVHPT DKYSNKDCPD SAEEYERATR YNYTSEEKFA LVEVIAMIKG LQVLMGRMES VFNHAIRHTV YAALQDFSQV TLREPLRQAI KKKKNVIQSV LQAIRKTVCD WETGHEPFND PALRGEKDPK SGFDIKVPRR AVGPSSTQLY MVRTMLESLI ADKSGSKKTL RSSLEGPTIL DIEKFHRESF FYTHLINFSE TLQQCCDLSQ LWFREFFLEL TMGRRIQFPI EMSMPWILTD HILETKEASM MEYVLYSLDL YNDSAHYALT RFNKQFLYDE IEAEVNLCFD QFVYKLADQI FAYYKVMAGS

	LLLDKRLRSE CKNQGATIHL PPSNRYETLL KQRHVQLLGR SIDLNRLITQ RVSAAMYKSL ELAIGRFESE DLTSIVELDG LLEINRMTHK LLSRYLTLDG FDAMFREANH NVSAPYGRIT LHVFWELNYD FLPNYCYNGS TNRFVRTVLP FSQEFQRDKQ PNAQPQYLHG SKALNLAYSS IYGSYRNFVG PPHFQVICRL LGYQGIAVVM EELLKVVKSL LQGTILQYVK TLMEVMPKIC RLPRHEYGSP GILEFFHHQL KDIVEYAELK TVCFQNLREV GNAILFCLLI EQSLSLEEVC DLLHAAPFQN ILPRVHVKEG ERLDAKMKRL ESKYAPLHLV PLIERLGTPQ QIAIAREGDL LTKERLCCGL SMFEVILTRI RSFLDDPIWR GPLPSNGVMH VDECVEFHRL WSAMQFVYCI PVGTHEFTVE QCFGDGLHWA GCMIIVLLGQ QRRFAVLDFC YHLLKVQKHD GKDEIIKNVP LKKMVERIRK FQILNDEIIT ILDKYLKSGD GEGTPVEHVR CFQPPIHQSL ASS **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. • Human CYFIP1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • 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 will ensure that you receive a correctly folded 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. 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). 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. 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. 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: 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

Product Details

	fractions are analyzed by SDS-PAGE. 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.
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:	CYFIP1
Alternative Name:	CYFIP1 (CYFIP1 Products)
Background:	Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit is an adapter between EIF4E and FMR1. Promotes the translation repression activity of FMR1 in brain probably by mediating its association with EIF4E and mRNA (By similarity). Regulates formation of membrane ruffles and lamellipodia. Plays a role in axon outgrowth. Binds to F-actin but not to RNA. Part of the WAVE complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. Regulator of epithelial morphogenesis. May act as an invasion suppressor in cancers. {ECO:0000250, ECO:0000269|PubMed:16260607, ECO:0000269|PubMed:19524508, ECO:0000269|PubMed:21107423, ECO:0000269|PubMed:9417078}.
Molecular Weight:	146.1 kDa Including tag.
UniProt:	Q7L576

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:	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

Application Details

	receive your protein of interest.
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

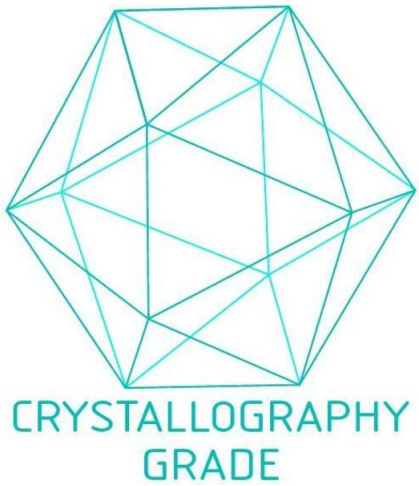

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process