Datasheet for ABIN3091949

CUX1 Protein (AA 1-1505) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	CUX1
Protein Characteristics:	AA 1-1505
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CUX1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MLCVAGARLK RELDATATVL ANRQDESEQS RKRLIEQSRE FKKNTPEDLR KQVAPLLKSF QGEIDALSKR SKEAEAAFLN VYKRLIDVPD PVPALDLGQQ LQLKVQRLHD IETENQKLRE TLEEYNKEFA EVKNQEVTIK ALKEKIREYE QTLKNQAETI ALEKEQKLQN DFAEKERKLQ ETQMSTTSKL EEAEHKVQSL QTALEKTRTE LFDLKTKYDE ETTAKADEIE MIMTDLERAN QRAEVAQREA ETLREQLSSA NHSLQLASQI QKAPDVEQAI EVLTRSSLEV ELAAKEREIA QLVEDVQRLQ ASLTKLRENS ASQISQLEQQ LSAKNSTLKQ LEEKLKGQAD YEEVKKELNI LKSMEFAPSE GAGTQDAAKP LEVLLLEKNR SLQSENAALR ISNSDLSGSA RRKGKDQPES RRPGSLPAPP PSQLPRNPGE QASNTNGTHQ FSPAGLSQDF FSSSLASPSL PLASTGKFAL NSLLQRQLMQ SFYSKAMQEA GSTSMIFSTG PYSTNSISSQ SPLQQSPDVN GMAPSPSQSE SAGSVSEGEE MDTAEIARQV KEQLIKHNIG QRIFGHYVLG LSQGSVSEIL ARPKPWNKLT VRGKEPFHKM KQFLSDEQNI LALRSIQGRQ RENPGQSLNR LFQEVPKRRN GSEGNITTRI RASETGSDEA IKSILEQAKR ELQVQKTAEP AQPSSASGSG NSDDAIRSIL QQARREMEAQ

QAALDPALKQ APLSQSDITI LTPKLLSTSP MPTVSSYPPL AISLKKPSAA PEAGASALPN PPALKKEAQD APGLDPQGAA DCAQGVLRQV KNEVGRSGAW KDHWWSAVQP ERRNAASSEE AKAEETGGGK EKGSGGSGGG SQPRAERSQL QGPSSSEYWK EWPSAESPYS QSSELSLTGA SRSETPQNSP LPSSPIVPMS KPTKPSVPPL TPEQYEVYMY QEVDTIELTR QVKEKLAKNG ICQRIFGEKV LGLSQGSVSD MLSRPKPWSK LTQKGREPFI RMQLWLNGEL GQGVLPVQGQ QQGPVLHSVT SLQDPLQQGC VSSESTPKTS ASCSPAPESP MSSSESVKSL TELVQQPCPP IEASKDSKPP EPSDPPASDS QPTTPLPLSG HSALSIQELV AMSPELDTYG ITKRVKEVLT DNNLGQRLFG ETILGLTQGS VSDLLARPKP WHKLSLKGRE PFVRMQLWLN DPNNVEKLMD MKRMEKKAYM KRRHSSVSDS QPCEPPSVGT EYSQGASPQP QHQLKKPRVV LAPEEKEALK RAYQQKPYPS PKTIEDLATQ LNLKTSTVIN WFHNYRSRIR RELFIEEIQA GSQGQAGASD SPSARSGRAA PSSEGDSCDG VEATEGPGSA DTEEPKSQGE AEREEVPRPA EQTEPPPSGT PGPDDARDDD HEGGPVEGPG PLPSPASATA TAAPAAPEDA ATSAAAAPGE GPAAPSSAPP PSNSSSSSAP RRPSSLQSLF GLPEAAGARD SRDNPLRKKK AANLNSIIHR LEKAASREEP IEWEF

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 CUX1 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

Product Details

	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 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:	CUX1
Alternative Name:	CUX1 (CUX1 Products)
Background:	Probably has a broad role in mammalian development as a repressor of developmentally regulated gene expression. May act by preventing binding of positively-activing CCAAT factors to promoters. Component of nf-munr repressor, binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. Represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. Binds to the TH enhancer, may require the basic helix-loop-helix protein TCF4 as a coactivator (By similarity). {ECO:0000250}.
Molecular Weight:	165.1 kDa Including tag.
UniProt:	P39880
Pathways:	Cellular Glucan Metabolic Process

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

Application Details

	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.
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

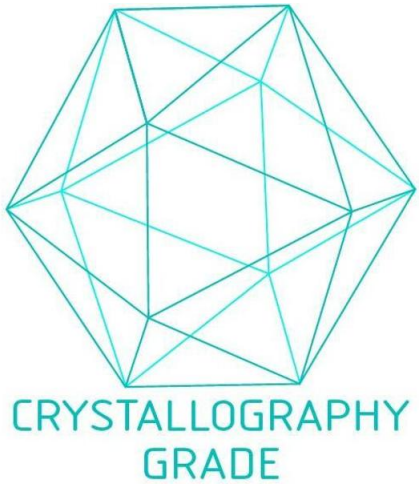

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process