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Datasheet for ABIN3091857

CLUH Protein (AA 1-1309) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	CLUH
Protein Characteristics:	AA 1-1309
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CLUH protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MLLNGDCPES LKKEAAAAEP PRENGLDEAG PGDETTGQEV IMIQDTGFSV KILAPGIEPF
 SLQVSPQEMV QEIHQVLM DR EDTCHRTCFS LHL DGNVLDH FSELRSVEGL QEGSVLRVVE
 EPYTVREARI HVRHVRDLLK SLDP SDAFNG VDCNSLSFLS VFTDGD LGDS GKRKKGLEMD
 PIDCTPPEYI LPGSRERPLC PLQPQNRDWK PLQCLKVLT M SGWNPPPGNR KMHGDLMYLF
 VITAEDRQVS ITASTRGFY L NQSTAYHFNP KPASPRFLSH SLVELLNQIS PTFKKNFAVL
 QKKRVQRHPF ERIATPFQVY SWTAPQAEHA MDCVRAEDAY TSRLGYEEHI PGQTRDWNEE
 LQTTRELPRK NLPERLLRER AIFKVHSDFT AAATRGAMAV IDGNVMAINP SEETKMQMFI
 WNNIFFSLGF DVRDHYKDFG GDVAAYVAPT ND LNVRTYN AVDVEGLYTL GTVVVDYRGY
 RVTAQSIIPG ILERDQEQSV IYGSIDFGKT VVSHPRYLEL LERTSRPLKI LRHQVLNDRD
 EEVELCSSVE CKGIIGNDGR HYILDLLRTF PPD LNFLPVP GEELPEECAR AGFPRAHRHK
 LCCLRQELVD AFVEHRYLLF MKLAALQLMQ QNASQLETPS SLENGGPSSL ESKSEDPPGQ
 EAGSEEEGSS ASGLAKVKEL AETIAADDGT DPRSREVIRN ACKAVGSISS TAFDIRFNPD

IFSPGVRFP E SCQDEV RDQK QLLK DAAAFL LSCQIPGLVK DCMEHAVLPV DGATLAEVMR
QRGINMRYLG KVLELVLRSP ARHQLDHVFK IGIGELITRS AKHIFKTYLQ GVLSGLSAA
ISHFLNCFLS SYPNPVAHLP ADELVSKKRN KRRKRNPPGA ADNTAWAVMT PQELWKNICQ
EAKNYDFDL ECETVDQAVE TYGLQKITLL REISLKTGIQ VLLKEYSFDS RHKPAFTEED
VLNIFPVVKH VNPKASDAFH FFQSGQAKVQ QGFLKEGCEL INEALNLFNN VYGAMHVETC
ACLRLLARLH YIMGDYAEAL SNQKAVLMS ERVMGTEHPN TIQEYMH LAL YCFASSQLST
ALSLLYRARY LMLLVFGEDH PEMALLDNNI GLVLHGVM EY DLSLRFLENA LAVSTKYHGP
KALKVALSHH LVARVYESKA EFRSALQHEK EGYTIYKTQL GEDHEKTKES SEYLKCLTQQ
AVALQRTMNE IYRNGSSANI PPLKFTAPSM ASVLEQLNVI NGILFIPLSQ KDLENLKA EV
ARRHQLQEAS RNRDRAE EPM ATEPAPAGAP GDLGSQPPAA KDPSPSVQG

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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 -

Product Details

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.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	CLUH
Alternative Name:	CLUH (CLUH Products)
Background:	Clustered mitochondria protein homolog,FUNCTION: mRNA-binding protein involved in proper cytoplasmic distribution of mitochondria. Specifically binds mRNAs of nuclear-encoded mitochondrial proteins in the cytoplasm and regulates transport or translation of these transcripts close to mitochondria, playing a role in mitochondrial biogenesis. {ECO:0000255 HAMAP-Rule:MF_03013, ECO:0000269 PubMed:25349259}.
Molecular Weight:	146.7 kDa
UniProt:	075153

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. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



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