

Datasheet for ABIN3091537

CHD1L Protein (AA 1-897) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CHD1L
Protein Characteristics:	AA 1-897
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHD1L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MERAGATSRG GQAPGFLRL HTEGRAEAAR VQEQLRQWG LTGIHLRSYQ LEGVNWLAQR</p> <p>FHCQNGCILG DEMGLGKTCQ TIALFIYLAG RLNDEGPFLI LCPLSVLSNW KEEMQRFAPG</p> <p>LSCVTYAGDK EERACLQQDL KQESRFHVLL TTYEICKDA SFLKSFPWSV LVVDEAHLK</p> <p>NQSSLLHCTL SEFSVVFSLT LTGTPIQNSL QELYSLLSFV EPDLFSKEEV GDFIQRYQDI</p> <p>EKESESASEL HKLLQPFLR RVKAEVATEL PKKTEVVIYH GMSALQKKYY KAILMKDLDA</p> <p>FENETAKVK LQNLSQLRK CVDHPYLFDG VEPEPFEVGD HLTEASGLKH LLDKLLAFLY</p> <p>SGGHRVLLFS QMTQMLDILQ DYMDYRGYSY ERVDGSGVRGE ERHLAIKNFG QQPIFVFLS</p> <p>TRAGGVGMNL TAADTVIFVD SDFNPQNDLQ AAARAHRIQK NKSVMKIRLI GRDTVEEIVY</p> <p>RKAASKLQLT NMIEGGHFT LGAQKPAADA DLQLSEILKF GLDKLLASEG STMDEIDLES</p> <p>ILGETKDGQW VSDALPAAEG GSRDQEEGKN HMYLFEGKDY SKEPSKEDRK SFEQLVNLQK</p> <p>TLLEKASQEG RSLRNKGSVL IPGLVEGSTK RKRVLSPPEL EDRQKKRQEA AAKRRRLIEE</p>

KKRQKEEAH KKKMAWWESN NYQSFCLPSE ESEPEDLENG EESSAELDYQ DPDATSLKYV
SGDVTHPQAG AEDALIVHCV DDSGHWGRGG LFTALEKRSA EPRKIYELAG KMKDLSLGGV
LLFPVDDKES RNKGQDLLAL IVAQHRDRSN VLSGIKMAAL EEGLKKIFLA AKKKKASVHL
PRIGHATKGF NWYGTERLIR KHLAARGIPT YIYYFPRSKS AVLHSQSSSS SSRQLVP

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.
- 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.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
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Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
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Grade:	custom-made
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Target Details

Target:	CHD1L
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Alternative Name:	CHD1L (CHD1L Products)
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Background:	<p>Chromodomain-helicase-DNA-binding protein 1-like (EC 3.6.4.-) (Amplified in liver cancer protein 1),FUNCTION: ATP-dependent chromatin remodeler that mediates chromatin-remodeling following DNA damage (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:33357431, PubMed:34486521, PubMed:34874266, PubMed:34210977). Recruited to DNA damage sites through interaction with poly-ADP-ribose: specifically recognizes and binds histones that are poly-ADP-ribosylated on serine residues in response to DNA damage (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:34874266, PubMed:34486521). Poly-ADP-ribose-binding activates the ATP-dependent chromatin remodeler activity, thereby regulating chromatin during DNA repair (PubMed:19661379, PubMed:29220652, PubMed:29220653, PubMed:34874266, PubMed:34486521). Catalyzes nucleosome sliding away from DNA breaks in an ATP-dependent manner (PubMed:19661379, PubMed:29220652, PubMed:29220653). Chromatin remodeling activity promotes PARP2 removal from chromatin (PubMed:33275888). {ECO:0000269 PubMed:19661379, ECO:0000269 PubMed:29220652, ECO:0000269 PubMed:29220653, ECO:0000269 PubMed:33275888, ECO:0000269 PubMed:33357431, ECO:0000269 PubMed:34210977, ECO:0000269 PubMed:34486521, ECO:0000269 PubMed:34874266}.</p>
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Molecular Weight:	101.0 kDa
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UniProt:	Q86WJ1
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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.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months