Datasheet for ABIN3091475

CDC5L Protein (AA 1-802) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CDC5L
Protein Characteristics:	AA 1-802
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDC5L protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPRIMIKGGV WRNTEDEILK AAVMKYGKNQ WSRIASLLHR KSAKQCKARW YEWLDPSIKK TEWSREEEEK LLHLAKLMPT QWRTIAPIIG RTAAQCLEHY EFLLDKAAQR DNEEETTDDP RKLKPGEIDP NPETKPARPD PIDMDEDELE MLSEARARLA NTQGKKAKRK AREKQLEEAR RLAALQKRRE LRAAGIEIQK KRKRKRGVDY NAEIPFEKKP ALGFYDTSEE NYQALDADFR KLRQQDLDGE LRSEKEGRDR KKDKQHLKRK KESDLPSAIL QTSGVSEFTK KRSKLVLPAP QISDAELQEV VKVGQASEIA RQTAEESGIT NSASSTLLSE YNVTNNSVAL RTPRTPASQD RILQEAQNLM ALTNVDTPLK GGLNTPLHES DFSGVTPQRQ VVQTPNTVLS TPFRTPSNGA EGLTPRSGTT PKPVINSTPG RTPLRDKLNI NPEDGMADYS DPSYVKQMER ESREHLRLGL LGLPAPKNDF EIVLPENAEK ELEEREIDDT YIEDAADVDA RKQAIRDAER VKEMKRMHKA VQKDLPRPSE VNETILRPLN VEPPLTDLQK SEELIKKEMI TMLHYDLLHH PYEPSGNKKG KTVGFGTNNS EHITYLEHNP YEKFSKEELK KAQDVLVQEM EVVKQGMSHG ELSSEAYNQV

	WEECYSQVLY LPGQSRYTRA NLASKKDRIE SLEKRLEINR GHMTTEAKRA AKMEKKMKIL LGGYQSRAMG LMKQLNDLWD QIEQAHLELR TFEELKKHED SAIPRRLECL KEDVQRQQER EKELQHRYAD LLLEKETLKS KF **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.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

Product Details

	System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	CDC5L
Alternative Name:	CDC5L (CDC5L Products)
Background:	Cell division cycle 5-like protein (Cdc5-like protein) (Pombe cdc5-related protein),FUNCTION: DNA-binding protein involved in cell cycle control. May act as a transcription activator. Plays a role in pre-mRNA splicing as core component of precatalytic, catalytic and postcatalytic spliceosomal complexes (PubMed:11991638, PubMed:20176811, PubMed:28502770, PubMed:28076346, PubMed:29361316, PubMed:29360106, PubMed:29301961, PubMed:30728453, PubMed:30705154). Component of the PRP19-CDC5L complex that forms an integral part of the spliceosome and is required for activating pre-mRNA splicing. The PRP19-CDC5L complex may also play a role in the response to DNA damage (DDR) (PubMed:20176811). As a component of the minor spliceosome, involved in the splicing of U12-type introns in pre-mRNAs (Probable). {ECO:0000269|PubMed:10570151, ECO:0000269|PubMed:11082045, ECO:0000269|PubMed:11101529, ECO:0000269|PubMed:11544257, ECO:0000269|PubMed:11991638, ECO:0000269|PubMed:12927788, ECO:0000269|PubMed:18583928, ECO:0000269|PubMed:20176811, ECO:0000269|PubMed:24332808, ECO:0000269|PubMed:28076346, ECO:0000269|PubMed:28502770, ECO:0000269|PubMed:29301961, ECO:0000269|PubMed:29360106, ECO:0000269|PubMed:29361316, ECO:0000269|PubMed:30705154, ECO:0000269|PubMed:30728453, ECO:0000269|PubMed:9038199, ECO:0000269|PubMed:9468527, ECO:0000269|PubMed:9632794, ECO:0000305|PubMed:33509932}.
Molecular Weight:	92.3 kDa
UniProt:	Q99459
Pathways:	Activation of Innate immune Response, Chromatin Binding

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.
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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months