Datasheet for ABIN3096286

CIRH1A Protein (AA 1-686) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CIRH1A
Protein Characteristics:	AA 1-686
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CIRH1A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGEFKVHRVR FFNYVPSGIR CVAYNNQSNR LAVSRTDGTV EIYNLSANYF QEKFFPGHES RATEALCWAE GQRLFSAGLN GEIMEYDLQA LNIKYAMDAF GGPIWSMAAS PSGSQLLVGC EDGSVKLFQI TPDKIQFERN FDRQKSRILS LSWHPSGTHI AAGSIDYISV FDVKSGSAVH KMIVDRQYMG VSKRKCIVWG VAFLSDGTII SVDSAGKVQF WDSATGTLVK SHLIANADVQ SIAVADQEDS FVVGTAEGTV FHFQLVPVTS NSSEKQWVRT KPFQHHTHDV RTVAHSPTAL ISGGTDTHLV FRPLMEKVEV KNYDAALRKI TFPHRCLISC SKKRQLLLFQ FAHHLELWRL GSTVATGKNG DTLPLSKNAD HLLHLKTKGP ENIICSCISP CGSWIAYSTV SRFFLYRLNY EHDNISLKRV SKMPAFLRSA LQILFSEDST KLFVASNQGA LHIVQLSGGS FKHLHAFQPQ SGTVEAMCLL AVSPDGNWLA ASGTSAGVHV YNVKQLKLHC TVPAYNFPVT AMAIAPNTNN LVIAHSDQQV FEYSIPDKQY TDWSRTVQKQ GFHHLWLQRD TPITHISFHP KRPMHILLHD AYMFCIIDKS LPLPNDKTLL YNPFPPTNES DVIRRRTAHA FKISKIYKPL LFMDLLDERT

	LVAVERPLDD IIAQLPPPIK KKKFGT **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 System (AliCE®).

Product Details

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

Target Details

Target:	CIRH1A
Alternative Name:	UTP4 (CIRH1A Products)
Background:	U3 small nucleolar RNA-associated protein 4 homolog (Cirhin) (UTP4 small subunit processome component),FUNCTION: Ribosome biogenesis factor. Involved in nucleolar processing of pre-18S ribosomal RNA. Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted d Involved in SSU pre-rRNA processing at sites A', A0, 1 and 2b. Required for optimal pre-ribosomal RNA transcription by RNA polymerase (PubMed:17699751, PubMed:19732766, PubMed:34516797). May be a transcriptional regulator (PubMed:22916032). {ECO:0000269|PubMed:17699751, ECO:0000269|PubMed:19732766, ECO:0000269|PubMed:22916032, ECO:0000269|PubMed:34516797}., FUNCTION: (Microbial infection) Acts as a positive regulator of HIVEP1 which specifically binds to the DNA sequence 5'-GGGACTTTCC-3' found in enhancer elements of numerous viral promoters such as those of HIV-1, SV40, or CMV. {ECO:0000269|PubMed:19732766}.
Molecular Weight:	76.9 kDa
UniProt:	Q969X6

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

Application Details

	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