Datasheet for ABIN3092273

EIF3C Protein (AA 1-913) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	EIF3C
Protein Characteristics:	AA 1-913
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3C protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSRFFTTGSD SESESSLSGE ELVTKPVGGN YGKQPLLLSE DEEDTKRVVR SAKDKRFEEL TNLIRTIRNA MKIRDVTKCL EEFELLGKAY GKAKSIVDKE GVPRFYIRIL ADLEDYLNEL WEDKEGKKKM NKNNAKALST LRQKIRKYNR DFESHITSYK QNPEQSADED AEKNEEDSEG SSDEDEDEDG VSAATFLKKK SEAPSGESRK FLKKMDDEDE DSEDSEDDED WDTGSTSSDS DSEEEEGKQT ALASRFLKKA PTTDEDKKAA EKKREDKAKK KHDRKSKRLD EEEEDNEGGE WERVRGGVPL VKEKPKMFAK GTEITHAVVI KKLNEILQAR GKKGTDRAAQ IELLQLLVQI AAENNLGEGV IVKIKFNIIA SLYDYNPNLA TYMKPEMWGK CLDCINELMD ILFANPNIFV GENILEESEN LHNADQPLRV RGCILTLVER MDEEFTKIMQ NTDPHSQEYV EHLKDEAQVC AIIERVQRYL EEKGTTEEVC RIYLLRILHT YYKFDYKAHQ RQLTPPEGSS KSEQDQAENE GEDSAVLMER LCKYIYAKDR TDRIRTCAIL CHIYHHALHS RWYQARDLML MSHLQDNIQH ADPPVQILYN RTMVQLGICA FRQGLTKDAH NALLDIQSSG RAKELLGQGL LLRSLQERNQ

EQEKVERRRQ VPFHLHINLE LLECVYLVSA MLLEIPYMAA HESDARRRMI SKQFHHQLRV GERQPLLGPP ESMREHVVAA SKAMKMGDWK TCHSFIINEK MNGKVWDLFP EADKVRTMLV RKIQEESLRT YLFTYSSVYD SISMETLSDM FELDLPTVHS IISKMIINEE LMASLDQPTQ TVVMHRTEPT AQQNLALQLA EKLGSLVENN ERVFDHKQGT YGGYFRDQKD GYRKNEGYMR RGGYRQQQSQ TAY

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

Target Details

Target:	EIF3C
Alternative Name:	EIF3C (EIF3C Products)
Background:	Eukaryotic translation initiation factor 3 subunit C (eIF3c) (Eukaryotic translation initiation factor 3 subunit 8) (eIF3 p110),FUNCTION: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773). {ECO:0000255|HAMAP-Rule:MF_03002, ECO:0000269|PubMed:17581632, ECO:0000269|PubMed:25849773, ECO:0000269|PubMed:27462815}.
Molecular Weight:	105.3 kDa
UniProt:	Q99613
Pathways:	Ribonucleoprotein Complex Subunit Organization

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.

Application Details

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