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Datasheet for ABIN3092273
EIF3C Protein (AA 1-913) (Strep Tag)

Overview

Quantity:	1 mg
Target:	EIF3C
Protein Characteristics:	AA 1-913
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3C protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence: MSRFFTTGSD SESESSLGSE ELVTKPVGGN YGKQPLLLSE DEEDTKRVVR SAKDKRFEEL
TNLIRTIRNA MKIRDVTKCL EEFELLGKAY GKAKSIVDKE GVPRFYIRIL ADLEDYLNEL
WEDKEGKKKM NKNNAKALST LRQKIRKYNR DFESHITSYK QNPEQSADED AEKNEEDSEG
SSDEDEDEDG VSAATFLKKK SEAPSGESRK FLKKMDDEDE DSEDEDEDDED WDTGSTSSDS
DSEEEEGKQT ALASRFLKKA PTTDEDKAA EKKREDKAKK KHDRKSKRLD EEEEDNEGGE
WERVRGGVPL VKEKPKMFAK GTEITHAVI KKLNEILQAR GKKGTDRAAQ IELLQLLVQI
AAENNLGEGV IVKIKFNIIA SLYDYNPNLA TYMKPEMWGK CLDCINELMD ILFANPNIFV
GENILEESEN LHNADQPLRV RGCILTLVER MDEEFTKIMQ NTDPHSQEYV EHLKDEAQVC
AIIERVQRYL EEKGTTEVC RIYLLRILHT YYKFDYKAHQ RQLTPPEGSS KSEQDQAENE
GEDSAVLMER LCKYIYAKDR TDRIRTCAIL CHIIYHALHS RWYQARDLML MSHLQDNIQH
ADPPVQILYN RTMVQLGICA FRQGLTKDAH NALLDIQSSG RAKELLGQGL LLRSLQERNQ
EQEKVERRRQ VPFHLHINLE LLECVYLVSA MLLEIPYMAA HESDARRRMI SKQFHHLQRLV

GERQPLLGPP ESMREHVVA SKAMKMGDWK TCHSFIINEK MNGKVWDLFP EADKVRTMLV
RKIQEESLRT YLFTYSSVYD SISMETLSDM FELDLPTVHS IISKMIINEE LMASLDQPTQ
TVVMHRTEPT AQQNLALQLA EKLGSLENN ERVFDHKQGT YGGYFRDQKD GYRKNEGYMR
RGGYRQQSQ 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 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 - 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.

Product Details

- 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:	EIF3C
Alternative Name:	EIF3C (EIF3C Products)
Background:	<p>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}.</p>
Molecular Weight:	105.3 kDa
UniProt:	Q99613

Target Details

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.

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)