Datasheet for ABIN3092369

EIF3B Protein (AA 1-814) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	EIF3B
Protein Characteristics:	AA 1-814
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MQDAENVAVP EAAEERAEPG QQQPAAEPPP AEGLLRPAGP GAPEAAGTEA SSEEVGIAEA GPESEVRTEP AAEAEAASGP SESPSPPAAE ELPGSHAEPP VPAQGEAPGE QARDERSDSR AQAVSEDAGG NEGRAAEAEP RALENGDADE PSFSDPEDFV DDVSEEELLG DVLKDRPQEA DGIDSVIVVD NVPQVGPDRL EKLKNVIHKI FSKFGKITND FYPEEDGKTK GYIFLEYASP AHAVDAVKNA DGYKLDKQHT FRVNLFTDFD KYMTISDEWD IPEKQPFKDL GNLRYWLEEA ECRDQYSVIF ESGDRTSIFW NDVKDPVSIE ERARWTETYV RWSPKGTYLA TFHQRGIALW GGEKFKQIQR FSHQGVQLID FSPCERYLVT FSPLMDTQDD PQAIIIWDIL TGHKKRGFHC ESSAHWPIFK WSHDGKFFAR MTLDTLSIYE TPSMGLLDKK SLKISGIKDF SWSPGGNIIA FWVPEDKDIP ARVTLMQLPT RQEIRVRNLF NVVDCKLHWQ KNGDYLCVKV DRTPKGTQGV VTNFEIFRMR EKQVPVDVVE MKETIIAFAW EPNGSKFAVL HGEAPRISVS FYHVKNNGKI ELIKMFDKQQ ANTIFWSPQG QFVVLAGLRS MNGALAFVDT SDCTVMNIAE HYMASDVEWD

PTGRYVVTSV SWWSHKVDNA YWLWTFQGRL LQKNNKDRFC QLLWRPRPPT LLSQEQIKQI KKDLKKYSKI FEQKDRLSQS KASKELVERR RTMMEDFRKY RKMAQELYME QKNERLELRG GVDTDELDSN VDDWEEETIE FFVTEEIIPL GNQE

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:	EIF3B
Alternative Name:	EIF3B (EIF3B Products)
Background:	Eukaryotic translation initiation factor 3 subunit B (eIF3b) (Eukaryotic translation initiation factor 3 subunit 9) (Prt1 homolog) (hPrt1) (eIF-3-eta) (eIF3 p110) (eIF3 p116),FUNCTION: RNA-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:9388245, 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:9388245, 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_03001, ECO:0000269|PubMed:17581632, ECO:0000269|PubMed:25849773, ECO:0000269|PubMed:27462815, ECO:0000269|PubMed:9388245}., FUNCTION: (Microbial infection) In case of FCV infection, plays a role in the ribosomal termination-reinitiation event leading to the translation of VP2 (PubMed:18056426). {ECO:0000269|PubMed:18056426}.
Molecular Weight:	92.5 kDa
UniProt:	P55884
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

Application Details

	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