Datasheet for ABIN7553801

EIF3B Protein (AA 1-814) (His tag)

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Overview

Quantity:	1 mg
Target:	EIF3B
Protein Characteristics:	AA 1-814
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EIF3B Protein expressed in mammalian cells.
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

Product Details

	KKDLKKYSKI FEQKDRLSQS KASKELVERR RTMMEDFRKY RKMAQELYME QKNERLELRG GVDTDELDSN VDDWEEETIE FFVTEEIIPL GNQE **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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-

Target Details

	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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months