Datasheet for ABIN7551776

EIF4ENIF1 Protein (AA 1-985) (His tag)

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Overview

Quantity:	1 mg
Target:	EIF4ENIF1
Protein Characteristics:	AA 1-985
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF4ENIF1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat EIF4ENIF1 Protein expressed in mammalien cells.
Sequence:	MDRRSMGETE SGDAFLDLKK PPASKCPHRY TKEELLDIKE LPHSKQRPSC LSEKYDSDGV WDPEKWHASL YPASGRSSPV ESLKKELDTD RPSLVRRIVD PRERVKEDDL DVVLSPQRRS FGGGCHVTAA VSSRRSGSPL EKDSDGLRLL GGRRIGSGRI ISARTFEKDH RLSDKDLRDL RDRDRERDFK DKRFRREFGD SKRVFGERRR NDSYTEEEPE WFSAGPTSQS ETIELTGFDD KILEEDHKGR KRTRRRTASV KEGIVECNGG VAEEDEVEVI LAQEPAADQE VPRDAVLPEQ SPGDFDFNEF FNLDKVPCLA SMIEDVLGEG SVSASRFSRW FSNPSRSGSR SSSLGSTPHE ELERLAGLEQ AILSPGQNSG NYFAPIPLED HAENKVDILE MLQKAKVDLK PLLSSLSANK EKLKESSHSG VVLSVEEVEA GLKGLKVDQQ VKNSTPFMAE HLEETLSAVT NNRQLKKDGD MTAFNKLVST MKASGTLPSQ PKVSRNLESH LMSPAEIPGQ PVPKNILQEL LGQPVQRPAS SNLLSGLMGS LEPTTSLLGQ RAPSPPLSQV FQTRAASADY LRPRIPSPIG FTPGPQQLLG DPFQGMRKPM SPITAQMSQL ELQQAALEGL ALPHDLAVQA ANFYQPGFGK PQVDRTRDGF

Product Details

	RNRQQRVTKS PAPVHRGNSS SPAPAASITS MLSPSFTPTS VIRKMYESKE KSKEEPASGK AALGDSKEDT QKASEENLLS SSSVPSADRD SSPTTNSKLS ALQRSSCSTP LSQANRYTKE QDYRPKATGR KTPTLASPVP TTPFLRPVHQ VPLVPHVPMV RPAHQLHPGL VQRMLAQGVH PQHLPSLLQT GVLPPGMDLS HLQGISGPIL GQPFYPLPAA SHPLLNPRPG TPLHLAMVQQ QLQRSVLHPP GSGSHAAAVS VQTTPQNVPS RSGLPHMHSQ LEHRPSQRSS SPVGLAKWFG SDVLQQPLPS MPAKVISVDE LEYRQ **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	EIF4ENIF1
Alternative Name:	EIF4ENIF1 (EIF4ENIF1 Products)
Background:	Eukaryotic translation initiation factor 4E transporter (4E-T) (eIF4E transporter) (Eukaryotic translation initiation factor 4E nuclear import factor 1),FUNCTION: EIF4E-binding protein that regulates translation and stability of mRNAs in processing bodies (P-bodies) (PubMed:16157702, PubMed:24335285, PubMed:27342281, PubMed:32354837). Plays a key role in P-bodies to coordinate the storage of translationally inactive mRNAs in the cytoplasm

Target Details

	and prevent their degradation (PubMed:24335285, PubMed:32354837). Acts as a binding platform for multiple RNA-binding proteins: promotes deadenylation of mRNAs via its interaction with the CCR4-NOT complex, and blocks decapping via interaction with eIF4E (EIF4E and EIF4E2), thereby protecting deadenylated and repressed mRNAs from degradation (PubMed:27342281, PubMed:32354837). Component of a multiprotein complex that sequesters and represses translation of proneurogenic factors during neurogenesis (By similarity). Promotes miRNA-mediated translational repression (PubMed:24335285, PubMed:27342281, PubMed:28487484). Required for the formation of P-bodies (PubMed:16157702, PubMed:22966201, PubMed:27342281, PubMed:32354837). Involved in mRNA translational repression mediated by the miRNA effector TNRC6B by protecting TNRC6B-targeted mRNAs from decapping and subsequent decay (PubMed:32354837). Also acts as a nucleoplasmic shuttling protein, which mediates the nuclear import of EIF4E and DDX6 by a piggy-back mechanism (PubMed:10856257, PubMed:28216671). {ECO:0000250|UniProtKB:Q9EST3, ECO:0000269|PubMed:10856257, ECO:0000269|PubMed:16157702, ECO:0000269|PubMed:22966201, ECO:0000269|PubMed:24335285, ECO:0000269|PubMed:27342281, ECO:0000269|PubMed:28216671, ECO:0000269|PubMed:28487484, ECO:0000269|PubMed:32354837}.
Molecular Weight:	108.2 kDa
UniProt:	Q9NRA8

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.
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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months