Datasheet for ABIN7553778

EIF3D Protein (AA 1-548) (His tag)

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Overview

Quantity:	1 mg
Target:	EIF3D
Protein Characteristics:	AA 1-548
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3D protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant EIF3D Protein expressed in mammalian cells.
Sequence:	MAKFMTPVIQ DNPSGWGPCA VPEQFRDMPY QPFSKGDRLG KVADWTGATY QDKRYTNKYS SQFGGGSQYA YFHEEDESSF QLVDTARTQK TAYQRNRMRF AQRNLRRDKD RRNMLQFNLQ ILPKSAKQKE RERIRLQKKF QKQFGVRQKW DQKSQKPRDS SVEVRSDWEV KEEMDFPQLM KMRYLEVSEP QDIECCGALE YYDKAFDRIT TRSEKPLRSI KRIFHTVTTT DDPVIRKLAK TQGNVFATDA ILATLMSCTR SVYSWDIVVQ RVGSKLFFDK RDNSDFDLLT VSETANEPPQ DEGNSFNSPR NLAMEATYIN HNFSQQCLRM GKERYNFPNP NPFVEDDMDK NEIASVAYRY RRWKLGDDID LIVRCEHDGV MTGANGEVSF INIKTLNEWD SRHCNGVDWR QKLDSQRGAV IATELKNNSY KLARWTCCAL LAGSEYLKLG YVSRYHVKDS SRHVILGTQQ FKPNEFASQI NLSVENAWGI LRCVIDICMK LEEGKYLILK DPNKQVIRVY SLPDGTFSSD EDEEEEEEEE EEEEEEET **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.**

Product Details

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:	EIF3D
Alternative Name:	EIF3D (EIF3D Products)
Background:	Eukaryotic translation initiation factor 3 subunit D (eIF3d) (Eukaryotic translation initiation factor 3 subunit 7) (eIF-3-zeta) (eIF3 p66),FUNCTION: mRNA cap-binding component of the eukaryotic translation initiation factor 3 (eIF-3) complex, a complex required for several steps in the initiation of protein synthesis of a specialized repertoire of mRNAs (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:18599441, PubMed:25849773). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell

Target Details

	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). In the eIF-3 complex, EIF3D specifically recognizes and binds the 7-methylguanosine cap of a subset of mRNAs (PubMed:27462815). {ECO:0000269|PubMed:18599441, ECO:0000269|PubMed:25849773, ECO:0000269|PubMed:27462815}., 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:	64.0 kDa
UniProt:	O15371
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