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EIF3D Protein (AA 1-548) (Strep Tag)



Image



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Overview

Quantity:	1 mg
Target:	EIF3D
Protein Characteristics:	AA 1-548
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF3D protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

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 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 posttranslational 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.
- 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®):

- 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

Product Details

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	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:	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 i
	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 fo
	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
	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:	015371
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)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process