Datasheet for ABIN3135390

# EIF2D Protein (AA 1-570) (Strep Tag)

Go to Product page

## Overview

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| Quantity: | 250 µg |
| Target: | EIF2D |
| Protein Characteristics: | AA 1-570 |
| Origin: | Mouse |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EIF2D protein is labelled with Strep Tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MFAKAFRVKS NTAIKGSDRR KLRADVTAAF PALGTDQISE LIPGKEELNV VKLYVHKGDS VTVYTSGGNP ILFELEKNLY PTVYTLWAYP DILPTFITWP LVLEKLVGGA DLMLPGVVVP PTGLPQVQQG DLCAIALVGN RAPVAIGVAA MSTAQMLASG LKGKGVSVLH TYQDHLWRSG DKSSPPAIAP LDPTDSCEEK VHLGLQGNLK SLTLDGEEEN GQVPLREASE DTSSRAPSQD SLDGKPLQEQ MDDLLLRCFL HALKSRVKKA DLPLLTSTLL GSHMFSCCPE GQQLDIKKSS YKKLSKFLQH MQQEQIVQVK ELSKGVESIV AVDWRHPRIT SFVIPEPSLT SQTVQEVSRE QPYLPPDIKS LYCVPANMTQ LFLESGHKKG STLEGSEVRK IITDYAKRNR LVDADNRNLV KLDPILCDCI LEKNEQHLVT KLPWDCLLTR CLKNMQPAYQ VTFPGQEPIL KKGKLCPIDI TLALKTYNKK VTVVRNLETY GLDPCSVAAI LQQRCQASTI VSPAPGAKDS LQVQVQGNQI HHLGQLLLEE YRLPGKYIQG LEKAPKPGKK<br>**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression** |

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| | **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:<br>• Made in Germany - from design to production - by highly experienced protein experts.<br>• Protein expressed with ALiCE® and purified in one-step affinity chromatography<br>• These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br><br>Expression System:<br>• 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.<br>• 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!<br><br>Concentration:<br>• The concentration of our recombinant proteins is measured using the absorbance at 280nm.<br>• The protein's absorbance will be measured against its specific reference buffer.<br>• 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 System (AliCE®). |
| Purity: | > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). |
| Grade: | custom-made |

## Target Details

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| Target: | EIF2D |
| Alternative Name: | Eif2d (EIF2D Products) |
| Background: | Eukaryotic translation initiation factor 2D (eIF2D) (Ligatin),FUNCTION: Translation initiation factor that is able to deliver tRNA to the P-site of the eukaryotic ribosome in a GTP-independent manner. The binding of Met-tRNA(I) occurs after the AUG codon finds its position in the P-site of 40S ribosomes, the situation that takes place during initiation complex formation on some specific RNAs. Its activity in tRNA binding with 40S subunits does not require the presence of the aminoacyl moiety. Possesses the unique ability to deliver non-Met (elongator) tRNAs into the P-site of the 40S subunit. In addition to its role in initiation, can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits (By similarity). {ECO:0000250}. |
| Molecular Weight: | 62.8 kDa |
| UniProt: | Q61211 |

## Application Details

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| 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.<br>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

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| Format: | Liquid |

## Handling

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| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>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 |