Datasheet for ABIN3123371

# EIF3S1 Protein (AA 2-263) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | EIF3S1 |
| Protein Characteristics: | AA 2-263 |
| Origin: | Mouse |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EIF3S1 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

## Product Details

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| Sequence: | AAAAAAAAAA AAGDSDSWDA DTFSMEDPVR KVAGGGTAGG DRWEGEDEDE DVKDNWDDDD DENKEEAEVK PEVKISEKKK IAEKIKEKER QQKKRQEEIK KRLEEPEESK VLTPEEQLAD KLRLKKLQEE SDLELAKETF GVNNTVYGID AMNPSSRDDF TEFGKLLKDK ITQYEKSLYY ASFLEALVRD VCISLEIDDL KKITNSLTVL CSEKQKQEKQ SKAKKKKKGV VPGGGLKATM KDDLADYGGY EGGYVQDYED FM<br>**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.** |
| Characteristics: | • Made in Germany - from design to production - by highly experienced protein experts.<br>• Mouse Eif3j2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.<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 |

## Product Details

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| | experts in the lab will ensure that you receive a correctly folded 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>In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).<br>When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.<br>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.<br>The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: | Two step purification of proteins expressed in bacterial culture:<br>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.<br>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 Western blot. |
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Endotoxin has not been removed. Please contact us if you require endotoxin removal. |
| Grade: | Crystallography grade |

## Target Details

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| Target: | EIF3S1 |
| Alternative Name: | Eif3j2 (EIF3S1 Products) |
| Background: | Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S |

## Target Details

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| | ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S preinitiation 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. This subunit binds directly within the mRNA entry channel of the 40S ribosome to the aminoacyl (A) site. It may regulate the interaction between the 43S PIC and mRNA. {ECO:0000255\|HAMAP-Rule:MF_03009}. |
| Molecular Weight: | 30.3 kDa Including tag. |
| UniProt: | Q66JS6 |
| Pathways: | Ribonucleoprotein Complex Subunit Organization |

## 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 gurantee though. |
| Comment: | Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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: | Unlimited (if stored properly) |

 