

Datasheet for ABIN7552105
EIF2C3 Protein (AA 1-860) (His tag)



[Go to Product page](#)

Overview

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| Quantity: | 1 mg |
| Target: | EIF2C3 |
| Protein Characteristics: | AA 1-860 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EIF2C3 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

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| Purpose: | Custom-made recombinat AGO3 Protein expressed in mammalian cells. |
| Sequence: | <p>MEIGSAGPAG AQPLLMVPRR PGYGTMGKPI KLLANCFQVE IPKIDVYLYE VDIKPDKCPR</p> <p>RVNREVVD SM VQHFKVTIFG DRRPVYDGKR SLYTANPLPV ATTGVLDLVT LPGEGGKDRP</p> <p>FKVSIKFVSR VSWHLLHEVL TGRTLPEPLE LDKPISTNPV HAVDVVLRHL PSMKYTPVGR</p> <p>SFFSAPEGYD HPLGGGREVW FGFHQSVRPA MWKMMLNIDV SATAFYKAQP VIQFMCEVLD</p> <p>IHNIDEQPRP LTDSHRVKFT KEIKGLKVEV THCGTMRRKY RVCNVTRRPA SHQTFPLQLE</p> <p>NGQTVERTVA QYFREKYTLQ LKYPHLPCLQ VGQEQKHTYL PLEV CNIVAG QRCIKKLT DN</p> <p>QTSTMIKATA RSAPDRQEEI SRLVRSANYE TDPFVQEFQF KVRDEMAHVT GRVLPAPMLQ</p> <p>YGGRNRTVAT PSHGVWDMRG KQFHTGVEIK MWAIACFATQ RQCREEILKG FTDQLRKISK</p> <p>DAGMPIQGQP CFCKYAQGAD SVEPMFRHLK NTYSGLQLII VILPGKTPVY AEVKRVGDTL</p> <p>LGMATQCVQV KNVIKTSPQT LSNLCLKINV KLGGINNILV PHQRPSVFQQ PVIFLGADVT</p> <p>HPPAGDGKKP SIAAVVGSMD AHPSRYCATV RVQRPRQEII QDLAS MVREL LIQFYKSTRF</p> |

KPTRIIFYRD GVSEGGFRQV LYYELLAIRE ACISLEKDYQ PGITYIVVQK RHHTRLF CAD
RTERVGRSGN IPAGTTVDTD ITHPYEFDY LC SHAGIQGT SRPSHYHVLW DDNCFTADEL
QLLTYQLCHT YVRCTRSVSI PAPAYY AHLV AFRARYHLVD KEHDSAEGSH VSGQSNGRDP
QALAKAVQIH QDTLRTMYFA **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.**

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| Characteristics: | <p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p> |
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| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
| Grade: | custom-made |

Target Details

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| Target: | EIF2C3 |
| Alternative Name: | AGO3 (EIF2C3 Products) |
| Background: | Protein argonaute-3 (Argonaute3) (hAgo3) (EC 3.1.26.n2) (Argonaute RISC catalytic component 3) (Eukaryotic translation initiation factor 2C 3) (eIF-2C 3) (eIF2C 3),FUNCTION: Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Proposed to be involved in stabilization of small RNA derivatives (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA-dependent degradation of a subset of RNA |

Target Details

polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4. Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of guide-target complementarity (PubMed:29040713).
{ECO:0000255|HAMAP-Rule:MF_03032, ECO:0000269|PubMed:18771919, ECO:0000269|PubMed:23064648, ECO:0000269|PubMed:29040713}.

Molecular Weight: 97.4 kDa

UniProt: [Q9H9G7](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Regulatory RNA Pathways](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

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

Storage Comment: Store at -80°C.

Expiry Date: 12 months