

Datasheet for ABIN7551990

AGO4 Protein (AA 1-861) (His tag)



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Overview

Quantity:	1 mg
Target:	AGO4 (EIF2C4)
Protein Characteristics:	AA 1-861
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGO4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AGO4 Protein expressed in mammalian cells.
Sequence:	<p>MEALGPGPPA SLFQPPRRPG LGTVGKPIRL LANHFQVQIP KIDVYHYDVD IKPEKRPRRV</p> <p>NREVVDTMVR HFKMQIFGDR QPGYDGKRNM YTAHPLPIGR DRVDMEVTLP GEGKDQTFKV</p> <p>SVQWVSVVSL QLLLEALAGH LNEVPDDSVQ ALDVITRHL PSMRYTPVGRS FFSPPEGYYH</p> <p>PLGGGREVWF GFHQSVRPAM WNMLNIDVS ATAFYRAQPI IEFMCEVLDI QNINEQTKPL</p> <p>TDSQRVKFTK EIRGLKVEVT HCGQMKRKYR VCNVTRRPAS HQTFPLQLEN GQAMECTVAQ</p> <p>YFKQKYSLQL KYPHLPCLQV GQEQKHTYLP LEVCNIVAGQ RCIKKLTNDQ TSTMIKATAR</p> <p>SAPDRQEEIS RLVKSNSMVG GPDPYLKEFG IVVHNEMTEL TGRVLPAPML QYGGRNKTVA</p> <p>TPNQGVWDMR GKQFYAGIEI KVVAVACFAP QKQCREDLLK SFTDQLRKIS KDAGMPIQQG</p> <p>PCFCKYAQGA DSVEPMFKHL KMTYVGLQLI VVILPGKTPV YAEVKRVGDT LLGMATQCVQ</p> <p>VKNVVKTSPQ TLSNLCLKIN AKLGGINNVL VPHQRPSVFQ QPVI FLGADV THPPAGDGKK</p> <p>PSIAAVVGSM DGHPSTRYCAT VRVQTSRQEI SQELLYSQEV IQDLTNMVRE LLIQFYKSTR</p>

FKPTRIIYYR GGVSEGMKQ VAWPELIAIR KACISLEEDY RPGITYIVVQ KRHHTRLFCA
DKTERVGKSG NVPAGTTVDS TITHPSEFDF YLCSHAGIQG TSRPSHYQVL WDDNCFTADE
LQLLTYQLCH TYVRCTRSVS IPAPAYYARL VAFRARYHLV DKDHDSAEGS HVSGQSNGRD
PQALAKAVQI HHDTQHTMYF A **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.**

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

Target:	AGO4 (EIF2C4)
Alternative Name:	AGO4 (EIF2C4 Products)
Background:	<p>Protein argonaute-4 (Argonaute4) (hAgo4) (Argonaute RISC catalytic component 4) (Eukaryotic translation initiation factor 2C 4) (eIF-2C 4) (eIF2C 4),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. Lacks endonuclease activity and does not appear to cleave target mRNAs. Also required for RNA-directed transcription and replication of the human hepatitis delta virus (HDV). {ECO:0000255 HAMAP-Rule:MF_03033, ECO:0000269 PubMed:15337849, ECO:0000269 PubMed:18552826,</p>

Target Details

	ECO:0000269 PubMed:18771919}.
Molecular Weight:	97.1 kDa
UniProt:	Q9HCK5
Pathways:	Fc-epsilon Receptor Signaling Pathway , Regulatory RNA Pathways , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Cellular Glucan Metabolic Process

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