

Datasheet for ABIN7551960
AGO1 Protein (AA 1-857) (His tag)



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Overview

Quantity:	1 mg
Target:	AGO1 (EIF2C1)
Protein Characteristics:	AA 1-857
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AGO1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AGO1 Protein expressed in mammalian cells.
Sequence:	MEAGPSGAAA GAYLPPLQQV FQAPRRPGIG TVGKPIKLLA NYFEVDIPKI DVYHYEVDIK PDKCPRRVNR EVVEYMQHF KPQIFGDRKP VYDGKKNIYT VTALPIGNER VDFEVTIPGE GKDRIKYSI KWLAIVSWRM LHEALVSGQI PVPLESVQAL DVAMRHLASM RYTPVGRSFF SPPEGYYHPL GGGREVVWFGF HQSVRPAMWK MMLNIDVSAT AFYKAQPVIE FMCEVLDIRN IDEQPKPLTD SQRVRFTKEI KGLKVEVTHC GQMKRKYRVC NVTRRPASHQ TFPLQLESGQ TVECTVAQYF KQKYNLQLKY PHLPCQLVQG EQKHTYLPLE VCNIVAGQRC IKKLTNDNQS TMIKATARSA PDRQEEISRL MKNASYNLDP YIQEFGIKVK DDMTEVTGRV LPAPILQYGG RNRAIATPNQ GVWDMRGKQF YNGIEIKVWA IACFAPQKQC REEVLKNFTD QLRKISKDAG MPIQQQPCFC KYAQGADSVE PMFRHLKNTY SGLQLIIVIL PGKTPVYAEV KRVGDTLLGM ATQCVQVKNV VKTSPQTLN LCLKINVKLG GINNILVPHQ RSAVFQQPVI FLGADVTHPP AGDGKKPSIT AVVGSMDAHP SRYCATVRVQ RPRQEIEDL SYMVRELLIQ FYKSTRFKPT

Product Details

RIIFYRDGVP EGQLPQILHY ELLAIRDACI KLEKDYQPGI TYIVVQKRHH TRLF CADKNE
RIGKSGNIPA GTTVDTNITH PFEFDLYLCS HAGIQGTSRP SHYYVLWDDN RFTADELQIL
TYQLCHTYVR CTRSVSIPAP AYYARLVAFR ARYHLVDKEH DSGEGSHISG QSNRDPQAL
AKAVQVHQDT LRTMYFA **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:

Key Benefits:

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

AGO1 (EIF2C1)

Alternative Name:

AGO1 ([EIF2C1 Products](#))

Background:

Protein argonaute-1 (Argonaute1) (hAgo1) (Argonaute RISC catalytic component 1) (Eukaryotic translation initiation factor 2C 1) (eIF-2C 1) (eIF2C 1) (Putative RNA-binding protein Q99),FUNCTION: Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), 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 transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antisense RNAs (agRNAs).

Target Details

{ECO:0000269|PubMed:16289642, ECO:0000269|PubMed:16936728, ECO:0000269|PubMed:18771919}.

Molecular Weight: 97.2 kDa

UniProt: [Q9UL18](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [Regulatory RNA Pathways](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Hormone Transport](#), [Regulation of Actin Filament Polymerization](#), [Stem Cell Maintenance](#), [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.

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