

Recombinant Human AGO1 protein, His & T7-tagged

Cat. No. AGO1-1393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AGO1 aa. (Cys689~Ala857 (Accession # Q9UL18) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Cys689~Ala857
Description	This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigenic RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.7kDa.

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 8.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

Gene Name	AGO1 argonaute 1, RISC catalytic component [Homo sapiens (human)]
Official Symbol	AGO1
Synonyms	AGO1; argonaute 1, RISC catalytic component; Q99; EIF2C; hAgo1; EIF2C1; GERP95; protein argonaute-1; Golgi Endoplasmic Reticulum protein 95 kDa;

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argonaute RISC catalytic component 1; argonaute1; eIF-2C 1; eIF2C 1; eukaryotic translation initiation factor 2C, 1; putative RNA-binding protein Q99

Gene ID	26523
mRNA Refseq	NM_001317122.1
Protein Refseq	NP_001304051.1
UniProt ID	Q9UL18