

Recombinant Full Length Human AGO1 protein, His-tagged

Cat. No. AGO1-10970H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full Length Human AGO1 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Glu 2-Ala 857 (Accession # Q9UL18-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: Met
Species	Human
Source	Insect Cells
ProteinLength	2-857 aa
Description	AGO1 (Argonaute-1) is a key protein in the RNA interference (RNAi) pathway. As a core component of the RNA-induced silencing complex (RISC), it binds to small non-coding RNAs like microRNAs (miRNAs) and short interfering RNAs (siRNAs). Unlike its close relative AGO2, AGO1 lacks the slicer activity to cleave target messenger RNAs (mRNAs). Instead, its primary function is to guide RISC to target mRNAs, leading to translational repression and subsequent mRNA degradation. This makes AGO1 crucial for gene silencing and the post-transcriptional regulation of gene expression.
Form	Supplied as 0.2 µm filtered solution in PBS, pH7.4 with glycerol as protectant.
Molecular Mass	The protein has a calculated MW of 99.1 kDa. The protein migrates as 95-120 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 months under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	AGO1 argonaute RISC component 1 [Homo sapiens (human)]
Official Symbol	AGO1
Synonyms	AGO1; argonaute RISC component 1; Q99; EIF2C; hAgo1; EIF2C1; GERP95; NEDLBAS; protein argonaute-1; Golgi Endoplasmic Reticulum protein 95 kDa; argonaute 1, RISC catalytic component; 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_012199
Protein Refseq	NP_036331
MIM	606228
UniProt ID	Q9UL18

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