



**Catalog Number:** PR27198

**Product Type:** Recombinant Protein

**Source:** *E. Coli*

**Amino Acid Sequence:** MKHHHHHHAS MYSGAGPALA PPAPPPPIQG YAFKPPRPD FGTSGRITKL QANFFEMDIP KIDIHYELD IKPEKCPRRV NREIVEHMQ HFKTQIFGDR KPVPDGRKNL YTAMPLPIGR DKVELEVTLPGEGKDRIFKV SIKWVSCVSL QALHDALSGR LPSVPFETIQ ALDVMRHLPSMRYTPVGRS FFTASEGCSN PLGGGREVWF GFHQSVRPSL WKMMLNIDVS ATAFYKAQPV IEFVCEVLDF KSIEEQKPL TDSQRVKFTK EIKGLKVEIT HCGQMKRKYR VCNVTRRPAS HQTFPLQQES GQTVECTVAQ YFKDRHKLVL RYPHLPCLQV GQEQQHTYLP LEVCNIVAGQ RCIKLTNDQ TSTMIRATAR SAPDRQEEIS KLMRSASFNT DPYVREFGIM VKDEMDTVTRVLQPPSILY GGRNKAIATP VQGVWDMRNK QFHTGIEIKV WAJACFAPQR QCTEVHLKSF TEQLRKISRD AGMPIQQGPC FCKYAQGADS VEPMFRHLKN TYAGLQLVVV ILPGKTPVYA EVKRVGDTVLMATQCVQMK NVQRTTPQTL SNLCLKINVK LGGVNNILLP QGRPPVFQPVIFLGADVTH PPAGDGKKPS IAAVVGSMDA HPNRYCATVR VQQRQEIIQ DLAAMVRELL IQFYKSTRFK PTRIIFYRDG VSEGQFQVL HHELLAIREA CIKLEKDYQP GITFIVVQKR HHTRLFCTC NERVGKSGNI PAGTTVDTKI THPTEFDLYL CSHAGIQGTS RPSHYHVLWD DNRFSDELQ ILTYQLCHTY VRCTRSVSIP APAYYHLVA FRARYHLVDK EHDSAEGSHT SGQSNRGRDHQ ALAKAVQVHQ DTLRTMYFA.

**Description/Molecular Mass:** The Argonaute protein is part of the RISC or RNA-induced silencing complex, as so, the protein has a key part in the slicing processes of RNA. The RNA interference (RNAi) is being held by RISC. Small nc coding RNA fragments bond to the Argonaute proteins, through base pairing, eventually leads to the cleavage of messenger RNA or translation suppression.

AGO2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (a.a 1-859) containing 869 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 98.4kDa (calculated).

**Purity:** Greater than 90.0% as determined by:  
(a) Analysis by SDS-PAGE.

**Format:** AGO2 is filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in 50mM acetate buffer, pH 4.

**Storage:** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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