
Product Data Sheet

Product Name: AGO2 Human

Cat. No.: GP22688

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical Appearance solid

Shipping Condition Shipped at Room temp.

Synonyms

Protein argonaute-2; Argonaute2; hAgo2; Argonaute RISC catalytic component 2; Eukaryotic translation initiation factor 2C 2; eIF-2C 2; eIF2C 2; PAZ Piwi domain protein; PPD; AGO2; EIF2C2; Protein slicer.

Amino Acid Sequence

MKHHHHHHAS MYSGAGPALA PPAPPPPIQG YAFKPPRPD FGTSGRTIKL
 QANFFEMDIP KIDIYHYELD IKPEKCPRRV NREIVEHMOVQ HFKTQIFGDR
 KPVFDGRKNL YTAMPLPIGR DKVELEVTLG GEGKDRIFKV SIKWVSCVSL
 QALHDALSGR LPSVPFETIQ ALDVVMRHLG SMRYTPVGRS FFTASEGCSN
 PLGGGREVWF GFHQSVRPSL WKMMLNIDVS ATAFYKAQPV IEFVCEVLDF
 KSIEEQKPL TDSQRVKFTK EIKGLKVEIT HCGQMKRKYR VCNVTRRPAS
 HQTFFPLQQES GQTVECTVAQ YFKDRHKLVL RYPHLPCLQV GQEQKHTYLP
 LEVCNIVAGQ RCIKKLTDNQ TSTMIRATAR SAPDRQEEIS KLMRSASFNT
 DPYVREFGIM VKDEMTDVTG RVLQPPSILY GGRNKAIATP VQGVWDMRNL
 QFHTGIEIKV WAIACFAPQR QCTEVHLKSF TEQLRKISRQ AGMPIQGGPC
 FCKYAQGADS VEPMFRHLKN TYAGLQLVVV ILPGKTPVYA EVKRVGDTVL
 GMATQCVQMK NVQRTTPQTL SNLCLKINVK LGGVNNILLP QGRPPVFQQP
 VIFLGADVTH PPAGDGKKPS IAAVVGSMVA HPNRYCATVR VQQHRQEIIQ
 DLAAMVRELL IQFYKSTRFK PTRIIFYRDG VSEGQFQQVL HHELLAIREA
 CIKLEKDYQP GITFIVVQKR HHTRLFCTDK NERVGKSGNI PAGTTVDTKI
 THPTDFDFYL CSHAGIQGTS RPSHYHVLWD DNRFSSEDLQ ILTYQLCHTY
 VRCTRSVSIP APAYYHLVA FRARYHLVDK EHDSAEGSHT SGQSNGRDHQ
 ALAKAVQVHQ DTLRTMYFA.

Solubility

It is recommended to add 0.1M acetate buffer, pH 4 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. AGO2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Caution: Product has not been fully validated for medical applications. For research use only.

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

Introduction

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 non-coding RNA fragments bond to the Argonaute proteins, through base pairing, eventually leads to the cleavage of messenger RNA or translation suppression.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

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).

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