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## Product Data Sheet

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Product Name: AGO2 (1-200) Human

Cat. No.: GP22689

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 YAFKPPPRPD FGTSGRTIKL QANFFEMDIP KIDIYHYELD IKPEKCPRRV NREIVEHMQV HFKTQIFGDR KPVFDGRKNL YTAMPLPIGR DKVELEVTLG GEGKDRIFKV SIKWVSCVSL QALHDALSGR LPSVPFETIQ ALDVVMRHLG SMRYTPVGRS FFTASEGCSN PLGGGREVW.		
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 (1-200) is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	AGO2 (1-200) filtered (0.4 μm) and lyophilized from 0.5mg/ml 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

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

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limited period of time; it does not show any change after two weeks at 4°C .

### Background

AGO2 (1-200) Human Recombinant is a single, non-glycosylated, polypeptide chain containing 210 amino acids (1-200 a.a) and having a molecular mass of 23.7kDa (calculated). AGO2 (1-200) is fused to a 10 a.a His tag at N-terminal.

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