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Recombinant Human Argonaute-3/AGO3 Protein

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Catalog No.: RP02965   Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	192669	Q9H9G7-1

Tags
N-His

Synonyms
EIF2C3;AGO3

Product Information

Source	Purification
Baculovirus-Insect Cells	>88% as determined by SDS-PAGE

Endotoxin
< 1.0 EU/µg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 µm filtered solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% gly.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Argonaute (Ago) protein family plays a key role in the RNA interference (RNAi) process in different insects including Lepidopteran. AGO3 also coexists and interacts with Armitage in the mitochondrial fraction. Furthermore, AGO3 acts in conjunction with the mitochondria-associated protein Zucchini to control the dynamic subcellular localization of Armitage between mitochondria and nuage in a Slicer-dependent fashion.

Basic Information

Description
Recombinant Human Argonaute-3/AGO3 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Ala860) of human Argonaute-3/AGO3 (Accession #NP_079128.2) fused with a 6×His tag at the N-terminus.
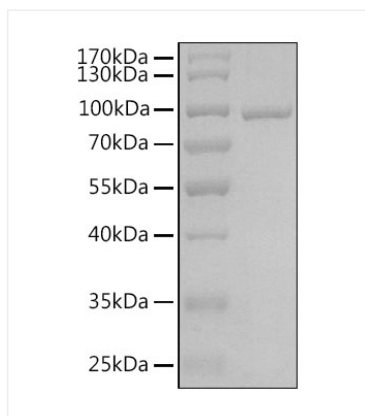
Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80°C for 12 months.
After reconstitution, the protein solution is stable at -20°C to -80°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data

Recombinant Human Argonaute-3/AGO3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 90 kDa.