

Human AGO3 / Argonaute 3 / EIF2C3 Protein (His Tag)

Catalog Number: 11433-H07B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

EIF2C3, RP4-789D17.2, AGO3, FLJ12765, MGC86946

Protein Construction:

A DNA sequence encoding the human EIF2C3 (Q9H9G7-1) (Met 1-Ala 860) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 88 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human EIF2C3 consists of 878 amino acids and predicts a molecular mass of 99.6 kDa. It migrates as an approximately 90 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

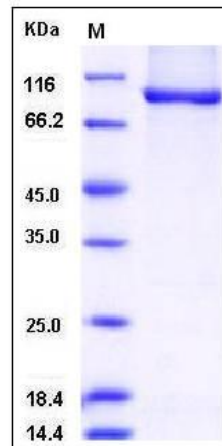
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Protein argonaute-3, also known as Argonaute-3, Eukaryotic translation initiation factor 2C 3, eIF-2C 3 AGO3 and EIF2C3, is cytoplasm protein which belongs to the argonaute family and Ago subfamily. EIF2C3 / AGO3 contains onePAZ domain and onePiwi domain. MicroRNAs (miRNAs) are a class of recently discovered noncoding RNA genes that post-transcriptionally regulate gene expression. It is becoming clear that miRNAs play an important role in the regulation of gene translation during development. EIF2C3 / AGO3 is required for RNA-mediated gene silencing (RNAi). EIF2C3 / AGO3 binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. EIF2C3 / AGO3 lacks endonuclease activity and does not appear to cleave target mRNAs.

References

1. Ota T. et al., 2004, Nat Genet. 36: 40-5.
2. Meister G. et al., 2004, Mol Cell. 15: 185-97.
3. Wu L. et al., 2008, Curr Biol. 18: 1327-1332.
4. Liao R. et al., 2008, J Cell Biochem. 104 (3): 805-17.

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