

Recombinant Human Argonaute-1/AGO1 Protein

Protein Information

RPCB2190

Size: $50 \mu g$ Tag: N-His

Reactivity: Human Expressed Host: Baculovirus-Insect

Cells

Calculated MW: 99.5 kDa Observerd MW: 99 kDa

Background

Protein argonaute-1, also known as eukaryotic translation initiation factor 2C 1, EIF2C1, and AGO1, is a member of the argonaute family and ago subfamily. Protein argonaute-1 in humans is encoded by the EIF2C1 gene. This gene is located on chromosome 1 in a cluster of closely related family members including argonaute 3, and argonaute 4. This genomic region is frequently lost in human cancers such as Wilms tumors, neuroblastoma, and carcinomas of the breast, liver, and colon. The human EIF2C1 gene is ubiquitously expressed at low to medium levels. Differential polyadenylation and splicing result in a complex transcriptional pattern.EIF2C1 protein contains onePAZ domain and onePiwi domain. It is required for RNA-mediated gene silencing (RNAi) and transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antigene RNAs (agRNAs). EIF2C1 binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), and represses the translation of mRNAs which are complementary to them.

Properties

Synonyms: Q99, EIF2C, hAgo1, EIF2C1, GERP95, NEDLBAS, AGO1

Gene ID: 26523

Endotoxin: < 1 EU/µg of the protein by LAL method.

Description: High quality, high purity and low endotoxin recombinant Recombinant

Human Argonaute-1/AGO1 Protein (RPCB2190), tested reactivity in Baculovirus-Insect Cells and has been validated in SDS-PAGE.100%

guaranteed.

Purity: \geq 85 % as determined by SDS-PAGE.

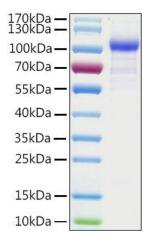
Storage: Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year

from the date of receipt. After reconstitution, the protein solution is stable

at -20°C for 3 months, at 2-8°C for up to 1 week.



Validation Data



Recombinant Human Argonaute-1/AGO1

Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.