

# Recombinant human RNASEH2A protein

Catalog Number: ATGP2138

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-299aa

### UniProt No.

O75792

### NCBI Accession No.

NP\_006388

### Alternative Names

Ribonuclease H2 subunit A, AGS4, JuNB, RNASEHI, RNHIA, RNHL

## PRODUCT SPECIFICATION

---

### Molecular Weight

35.8 kDa (322aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

Ribonuclease H2 subunit A, also known as RNASEH2A, belongs to the RNase HII family and eukaryotic subfamily. Localized to the nucleus, RNASEH2A mediates the removal of Okazaki fragment RNA primers that are present on the lagging strand during DNA replication. RNASEH2A catalyzes the endonucleolytic cleavage of RNA to a 5'-phosphomonoester and is able to bind magnesium or manganese as cofactors. Defects in RNASEH2A are the cause of Aicardi-Goutieres syndrome type 4 (AGS4). Recombinant human RNASEH2A protein, fused to His-tag at N-terminus, was expressed in E. coli

## Recombinant human RNASEH2A protein

Catalog Number: ATGP2138

### Amino acid Sequence

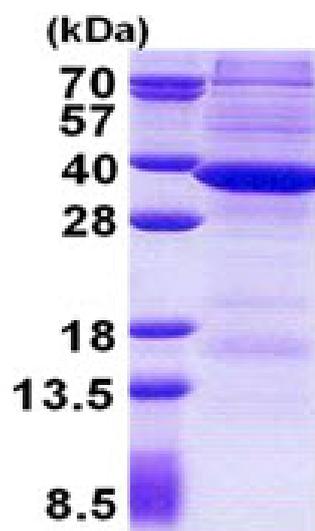
MGSSHHHHHH SSGLVPRGSH MGSMDLSELE RDNTGRCRLS SPVPAVCRKE PCVLGVDEAG RGPVLGPMVY AICYCPLPRL  
ADLEALKVAD SKTLLESERE RLFKAMEDTD FVGWALDVLS PNLISTSMLG RVKYNLNSLS HDTATGLIQY ALDQGVNVTQ  
VFVDTVGMPE TYQARLQSQF PGIEVTVKAK ADALYPVSA ASICAKVARD QAVKKWQFVE KLQDLDTDYG SGYPNDPKTK  
AWLKEHVEPV FGFPQFVRF S WRTAQTILEK EAEDVIWEDS ASENQEGLRK ITSYFLNEGS QARPRSSHRY FLERGLSAT SL

### General References

Frank P., et al. (1998) Proc Natl Acad Sci uSA. 95:12872-12877.  
Bayliss C D., et al. (2005) Nucleic Acads Res. 33:400-408.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)