

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

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Amino acid Sequence

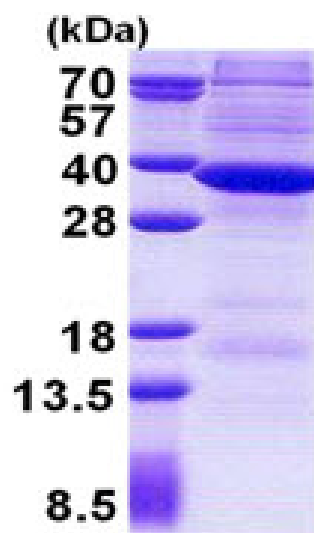
MGSSHHHHHH SSGLVPRGSH MGSMDLSELE RDNTGRCRLS SPVPAVCRKE PCVLGVDEAG RGPVLGPMVY AICYCPLPRL
ADLEALKVAD SKTLLESERE RLFAMMEDTD FVGWALDVLS PNLISTSMLG RVKYNLNSLS HDTATGLIQY ALDQGVNVTQ
VFVDTVGMPE TYQARLQSF PGIEVTVKAK ADALYPVSA ASICAKVARD QAVKKWQFVE KLQDLDTDYG SGYPNDPKTK
AWLKEHVEPV FGFPQFVRFS WRTAQTILEK EAEDVIWEDS ASENQEGLRK ITSYFLNEGS QARPRSSHRY FLERGLESAT 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)