

Recombinant Full Length Human RNASEH2A, His-tagged

Cat. No. RNASEH2A-7627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RNASEH2A protein, fused to His-tag at N-terminus, was expressed in E.coli
Species	Human
Source	E.coli
ProteinLength	1-299aa
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).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	35.8kDa (322aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSM DLSELE RDNTGRCRLS SPVPAVCRKE PCVLGVDEAG RGPVLGPMVY AICYCPLPRL ADLEALKVAD SKTLLESERE RLFAKMEDTD FVGWALDVLS PNLISTSMLG RVKYNLNSLS HDTATGLIQY ALDQGVNVTQ VFVDTVGMPE TYQARLQQSF PGIEVTVKAK ADALYPVVSA

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ASICAKVARD QAVKKWQFVE KLQDLDTDYG SGYPNDPKTK AWLKEHVEPV
FGFPQFVRFS WRTAQ TILEK EAEDVIWEDS ASENQEGLRK ITSYFLNEGS
QARPRSSHRY FLERGLESAT SL

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml

GENE INFORMATION

Gene Name [RNASEH2A ribonuclease H2, subunit A \[Homo sapiens \]](#)

Official Symbol RNASEH2A

Synonyms RNASEH2A; ribonuclease H2, subunit A; Aicardi Goutieres syndrome 4 , ribonuclease H2, large subunit; ribonuclease H2 subunit A; AGS4; RNASEHI; RNHIA; RNHL; RNase H(35); RNase H2 subunit A; RNase HI large subunit; ribonuclease HI subunit A; ribonuclease HI large subunit; ribonuclease H2, large subunit; ribonuclease HI, large subunit; aicardi-Goutieres syndrome 4 protein; JUNB;

Gene ID [10535](#)

mRNA Refseq [NM_006397](#)

Protein Refseq [NP_006388](#)

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MIM	606034
UniProt ID	O75792
Chromosome Location	19p13.13
Pathway	DNA replication, organism-specific biosystem; DNA replication, conserved biosystem;
Function	RNA binding; endonuclease activity; hydrolase activity; metal ion binding; ribonuclease H activity; ribonuclease activity;

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