

Recombinant Human RNASEH2A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RNASEH2A-4598H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RNASEH2A MS Standard C13 and N15-labeled recombinant protein (NP_006388) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a component of the heterotrimeric type II ribonuclease H enzyme (RNaseH2). RNaseH2 is the major source of ribonuclease H activity in mammalian cells and endonucleolytically cleaves ribonucleotides. It is predicted to remove Okazaki fragment RNA primers during lagging strand DNA synthesis and to excise single ribonucleotides from DNA-DNA duplexes. Mutations in this gene cause Aicardi-Goutieres Syndrome (AGS), a an autosomal recessive neurological disorder characterized by progressive microcephaly and psychomotor retardation, intracranial calcifications, elevated levels of interferon-alpha and white blood cells in the cerebrospinal fluid.
Molecular Mass	33.4 kDa
AA Sequence	MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPR LADLEALKVADSKTLLESERERLFAKMEDTDFVGWALDVLSPNLISTSMLGRVKYNL NSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQARLQQSFPGIEVTVKAKAD ALYPVVSAAISCAKVARDQAVKKWQFVEKLQDLTDYGSGYPNDPKTKAWLKEHVE

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	PVFGFPQFVRFSWRTAQTILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPR SSHRYFLERGLSATSLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	RNASEH2A ribonuclease H2 subunit A [Homo sapiens (human)]
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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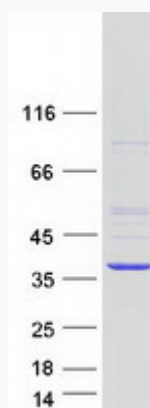
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MIM 606034

UniProt ID O75792

SDS-PAGE



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