

Recombinant Human RNASEH1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RNASEH1-1574H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RNASEH1 MS Standard C13 and N15-labeled recombinant protein (NP_002927) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and plays a key role in DNA replication and repair. Alternate in-frame start codon initiation results in the production of alternate isoforms that are directed to the mitochondria or to the nucleus. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF). Mutations in this gene have been found in individuals with progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2. Alternative splicing results in additional coding and non-coding transcript variants. Pseudogenes of this gene have been defined on chromosomes 2 and 17.
Molecular Mass	32.1 kDa
AA Sequence	MSWLLFLAHRVALAALPCRRGSRGFGMFYAVRRGRKTGVFLTWNECRAQVDRFPA ARFKKFATEDEAWAFVRKSASPEVSEGHENQHGGQSEAKASKRLREPLDGDGHES AEPYAKHMKPSVEPAPPVSRDTFSYMGDFVVVYTDGCCSSNGRRRPRAGIGVYWG PGHPLNVGIRLPGRQTNQRAEIIHAACKAIEQAKTQNINKLVLYTDSMFTINGITNWVQ

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GWKKNWKTSGKEVINKEDFVALERLTQGMDIQWMHVPGHSGFIGNEEADRLAR
EGAKQSEDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 RNASEH1 ribonuclease H1 [Homo sapiens (human)]

Official Symbol RNASEH1

Synonyms RNASEH1; ribonuclease H1; RNase H1; ribonuclease H type II; RNH1; H1RNA;

Gene ID 246243

mRNA Refseq NM_002936

Protein Refseq NP_002927

MIM 604123

UniProt ID O60930

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SDS-PAGE

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