

# Recombinant Human RNASEH1 Protein

**Cat. No.** RNASEH1-164H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human RNASEH1 was produced in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-260 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In PBS (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | (Theoretical molecular weight)~29.2kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA sequence</b>      | MFYAVRRGRKTGVFLTWNECRAQVDRFPAARFKKFATEDEAWAFVRKSASPEVSE<br>GHENQHGGQESEAKASKRLREPLDGDGHESAEPYAKHMKPSVEPAPPVSRDTFSYM<br>GDFVVVYTDGCCSSNGRRRPRAGIGVYWGP GHPLNVGIRLPGRQTNQRAEIIHAAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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KAIEQAKTQNINKLVLYTDSMFTINGITNWWQGWKKNGWKTSAGKEVINKEDFVALE  
RLTQGMDIQWMHVPBGHSGFIGNEEADRLAREGAKQSED

**Purity** >85% as determined by SDS-PAGE

**Storage** Short Term Storage at +4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20~-80 centigrade. Avoid freeze/thaw cycles.

**Concentration** 0.1 mg/ml

## GENE INFORMATION

**Gene Name** [RNASEH1 ribonuclease H1 \[ Homo sapiens \]](#)

**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](#)

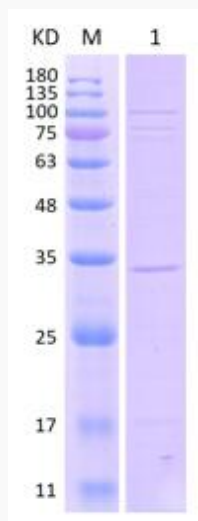
**MIM** [604123](#)

**UniProt ID** [O60930](#)

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