

## Active Recombinant Human RNASEH1 protein, His-tagged

**Cat. No.** RNASEH1-1192H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human RNASEH1 fused with His tag was expressed in Insect cells.                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | RNHA is an endonuclease which specifically degrades the RNA of RNA-DNA hybrids. Localized to the nucleus, the RNHA protein mediates the removal of Okazaki fragment RNA primers which are present on the lagging strand during DNA replication. RNHA catalyzes the endonucleolytic cleavage of RNA to a 5'-phosphomonoester and is capable of binding magnesium or manganese as cofactors. |
| <b>Form</b>             | 0.1M NaPO <sub>4</sub> , 0.05M NaCl, 0.05% Sar, Ph8                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | DNA-RNA hybrid cleavage: RNA 5'gacaccugauucugauuc; DNA 5'gaatcaggtgtc.Buffer: 50mM Tris-pH7.9, 50mMNaCl,5mM MgCl <sub>2</sub> , 1mM DTT, 20ug/ml BSA, 4%glycerol. Analysis by 12% TBE gel. Assays Pending.                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | approx.33kD                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | RNase H1 assays; Elisa/Western Blot; DNA/RNA hybrid Assay                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>        | At least 12 months at -75 centigrade                                                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Store at -75 centigrade                                                                                                                                                                 |
| <b>Concentration</b>       | 0.1mg/ml                                                                                                                                                                                |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                         |
| <b>Gene Name</b>           | RNASEH1 ribonuclease H1 [ Homo sapiens ]                                                                                                                                                |
| <b>Official Symbol</b>     | RNASEH1                                                                                                                                                                                 |
| <b>Synonyms</b>            | RNASEH1; ribonuclease H1; RNase H1; ribonuclease H type II; RNH1; H1RNA;                                                                                                                |
| <b>Gene ID</b>             | 246243                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_002936                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_002927                                                                                                                                                                               |
| <b>MIM</b>                 | 604123                                                                                                                                                                                  |
| <b>UniProt ID</b>          | O60930                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 2p25                                                                                                                                                                                    |
| <b>Pathway</b>             | DNA replication, organism-specific biosystem; DNA replication, conserved biosystem;                                                                                                     |
| <b>Function</b>            | RNA binding; endonuclease activity; hydrolase activity; magnesium ion binding; nucleic acid binding; protein homodimerization activity; ribonuclease H activity; ribonuclease activity; |

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