

# Recombinant Human Heat-Responsive Protein 12, His-tagged

**Cat. No.** HRSP12-939H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human HRSP12 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW = 16.6 kDa (157aa).                                                                                                                                               |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>              | HRSP12, also called ribonuclease UK114, is an endoribonuclease found predominantly in human adult kidney and liver, and which is responsible for inhibiting translation by cleaving mRNA. This protein cleaves phosphodiester bonds only in single-stranded RNA. It may be an important biomarker for hepatic carcinoma. |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl, 1mM DTT.                                                                                                                                                                                                                                         |
| <b>Purity</b>                   | > 95% by SDS - PAGE.                                                                                                                                                                                                                                                                                                     |
| <b>Concentration</b>            | 1.0 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MSSLI RRVIS TAKAPGAIGP YSQAVLVDRT<br>IYISGQIGMD PSSGQLVSGG VAE EAKQALK NMGEILKAAG CDFTNVVKT<br>T VLLADINDFN TVNEIYKQYF KSNFPARAAY QVAALPKGSR IEIEAVAIQG PLTTASL.                                                                                                                                   |
| <b>Storage</b>                  | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                    |

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## GENE INFORMATION

**Gene Name** HRSP12 heat-responsive protein 12 [ Homo sapiens ]

**Synonyms** heat-responsive protein 12;PSP; P14.5; UK114; HRSP12; ribonuclease UK114; UK114 antigen homolog; translational inhibitor p14.5; perchloric acid-soluble protein; translational inhibitor protein p14.5; 14.5 kDa translational inhibitor protein; EC 3.1

**Gene ID** 10247

**mRNA Refseq** NM\_005836

**Protein Refseq** NP\_005827

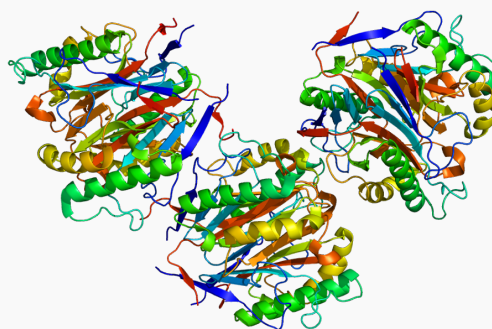
**MIM** 602487

**UniProt ID** P52758

**Chromosome Location** 8q22

**Function** endonuclease activity; hydrolase activity

**PDB rendering based on 1oni.**



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