



Recombinant Protein Technical Manual
Recombinant Human RIDA/HRSP12 Protein (His Tag)
RPES0414

Product Data:

Product SKU: RPES0414

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P52758

Protein Information:

Molecular Mass: 16.7 kDa

AP Molecular Mass: 33 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Ribonuclease UK114; 14.5 kDa Translational Inhibitor Protein; p14.5; Heat-Responsive Protein 12; UK114 Antigen Homolog; HRSP12; PSP

Immunogen Information:

Sequence: Met 1-Leu137

Background:

Heat-Responsive Protein 12 (HRSP12) is an endoribonuclease that belongs to the Rut family. HRSP12 is found mainly in the human adult kidney and liver and is responsible for inhibiting protein translation by cleaving mRNA. HRSP12 only cleaves phosphodiester bonds in single-stranded RNA and inhibits cell-free protein synthesis. The levels of both mRNA and protein are markedly reduced in hepatocellular tumors and in human hepatoma cell lines compared with normal liver tissues. Moreover the levels of HRSP12 are different depending on the grade of the tumor. This had led to the suggestion that HRSP12 may be an important biomarker for hepatic carcinoma.