Recombinant Human RNH1 Protein, His&GST-tagged

Cat. No. RNH1-2024H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RNH1 Protein (Ser2-Ser461) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser2-Ser461
Description	Placental ribonuclease inhibitor (PRI) is a member of a family of proteinaceous cytoplasmic RNase inhibitors that occur in many tissues and bind to both intracellular and extracellular RNases (summarized by Lee et al., 1988 [PubMed 3219362]). In addition to control of intracellular RNases, the inhibitor may have a role in the regulation of angiogenin (MIM 105850). Ribonuclease inhibitor, of 50,000 Da, binds to ribonucleases and holds them in a latent form. Since neutral and alkaline ribonucleases probably play a critical role in the turnover of RNA in eukaryotic cells, RNH may be essential for control of mRNA turnover; the interaction of eukaryotic cells with ribonuclease may be reversible in vivo.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 79.8 kDa Accurate Molecular Mass: 80 kDa
Purity	> 80%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	RNH1 ribonuclease/angiogenin inhibitor 1 [Homo sapiens (human)]
Official Symbol	RNH1
Synonyms	RNH1; ribonuclease/angiogenin inhibitor 1; RAI; RNH; ribonuclease inhibitor; placental RNase inhibitor; placental ribonuclease inhibitor; testicular tissue protein Li 164
Gene ID	6050
mRNA Refseq	NM_002939
Protein Refseq	NP_002930

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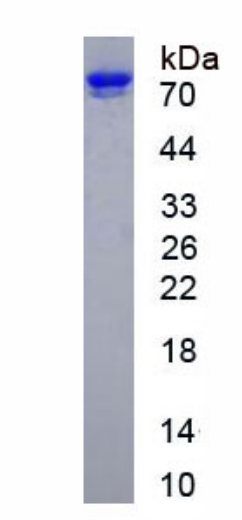
MIM	173320
UniProt ID	P13489



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