

Active Recombinant Full Length Human RNH1 Protein, C-Flag-tagged

Cat. No. RNH1-447HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RNH1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. In addition to control of intracellular RNases, the inhibitor may have a role in the regulation of angiogenin. 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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	49.8 kDa
AA Sequence	MSLDIQSLDIQCEELSDARWAEELLPLLQQCQVVRLDDCGLTEARCKDISSALRVNPA LAELNLRSNELGD VGVHCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLTP

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TLQELHLSNLLGDAGLQLLCEGLLDP QCRLEKLQLEYCSLSAASCEPLASVLRAPK
DFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCG VTSDNCRDLCGIVASK
ASLRELALGSNKLGDVGMAELCPGLLHPSSRLRTLWIWECGITAKGCGDLRCRVL RA
KESLKELSLAGNELGDEGARLLCETLLEPGCQLES LWVKSCSFTAACCSHFSSVLAQ
NRFLELQISN NRLEDAGVRELCQGLGQPGSVLRVLWLADCDVSDSSCSSLAATLL
ANHSLRELDLSNNCLGDAGILQLVE
SVRQPGCLLEQLVLYDIYWSEEMEDRLQALEKDKPSLRVISTRTRPLEQKLISEEDLA
ANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

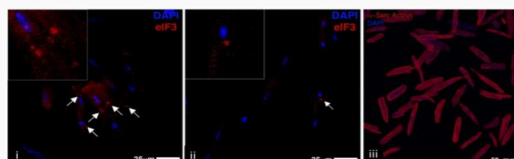
Gene Name	RNH1 ribonuclease/angiogenin inhibitor 1 [Homo sapiens (human)]
Official Symbol	RNH1
Synonyms	RAI; RNH

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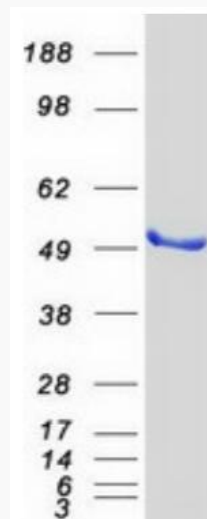
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Gene ID	6050
mRNA Refseq	NM_002939.4
Protein Refseq	NP_002930.2
MIM	173320
UniProt ID	P13489



Inhibition of angiogenin by ribonuclease/angiogenin inhibitor 1 (RNH1) results in a reduction in the ability of SDF-1mig cell-conditioned medium to stimulate the formation of stress granules. Images show the eIF3 granules in cardiomyocytes exposed to the SDF-1mig BM-MNC-conditioned medium in the absence (i) or presence (ii) of RNH1. Myocyte cytoplasm was labeled with alpha sarcomeric actinin (iii). DAPI stained the nuclei.



Coomassie blue staining of purified RNH1 protein.

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