

## Product datasheet for **TP308360**

### Ribonuclease Inhibitor (RNH1) (NM\_002939) Human Recombinant Protein

#### Product data:

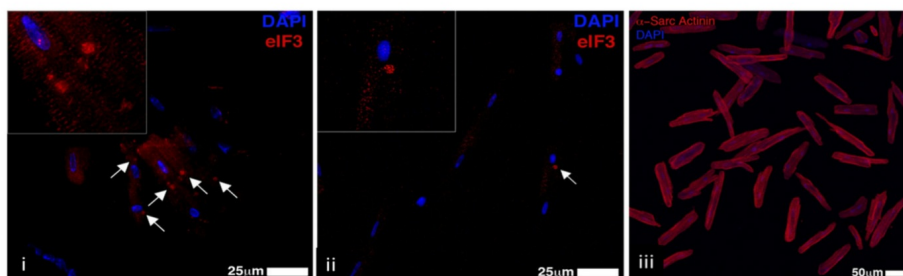
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribonuclease/angiogenin inhibitor 1 (RNH1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208360 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MSLDIQSLDIQCEELSDARWAELLPLLQQCQVRLDDCGLTEARCKDISSALRVNPALAEINLRSNELGD VGVHCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLSNLLGDAGLQLLCEGLLDP QCRLEKLQLEYCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCG VTSDNCRDLCGIVASKASLRELALGSNKLGDVGMaelCPGLLHPSRLRTLWIWECGITAKGCGDLCRVL RAKESLKELSLAGNELGDEGARLLCETLLEPGCQLES LWKSCSFTAACCSHFSSVLAQNRFLLELQISN NRLEDAGVRELCQGLGQPGSVLRVWLADCDVSDSSCSLAATLLANHSLRELDLSNNCLGDAGILQLVE SVRQPGCLLEQLVLYDIWSEEMEDRLQALEKDKPSLRVIS</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	49.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: <a href="#">25889213</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



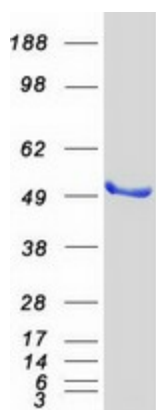
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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_002930</a>
<b>Locus ID:</b>	6050
<b>UniProt ID:</b>	<a href="#">P13489</a>
<b>RefSeq Size:</b>	2057
<b>Cytogenetics:</b>	11p15.5
<b>RefSeq ORF:</b>	1383
<b>Synonyms:</b>	RAI; RNH
<b>Summary:</b>	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.[supplied by OMIM, Jul 2010]

### Product images:



Inhibition of angiogenin by ribonuclease/angiogenin inhibitor 1 (RNH1) results in a reduction in the ability of SDF-1 mig cell-conditioned medium to stimulate the formation of stress granules. Images show the eIF3 granules in cardiomyocytes exposed to the SDF-1 mig BM-MNC-conditioned medium in the absence (i) or presence (ii) of RNH1 (OriGene TP308360). Myocyte cytoplasm was labeled with alpha sarcomeric actinin (iii). DAPI stained the nuclei. Figure cited from Stem Cell Res Ther, PMID: 25889213



Coomassie blue staining of purified RNH1 protein (Cat# TP308360). The protein was produced from HEK293T cells transfected with RNH1 cDNA clone (Cat# [RC208360]) using MegaTran 2.0 (Cat# [TT210002]).