

Product datasheet for **TP308360M**

Ribonuclease Inhibitor (RNH1) (NM_002939) Human Recombinant Protein

Product data:

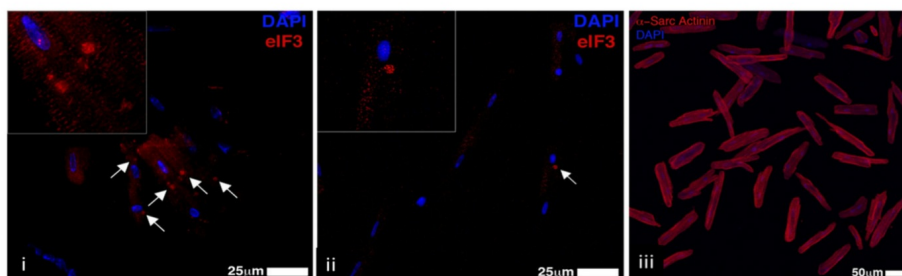
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribonuclease/angiogenin inhibitor 1 (RNH1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208360 protein sequence Red =Cloning site Green =Tags(s)
	MSLDIQSLDIQCEELSDARWAELLPLLQQCQVRLDDCGLTEARCKDISSALRVNPALAEINLRSNELGD VGVHCVLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRTLPTLQELHLSNLLGDAGLQLLCEGLLDP QCRLEKLQLEYCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCG VTSDNCRDLCGIVASKASLRELALGSNKLGDVGMALCPGLLHPSRLRTLWIWECGITAKGCGDLCRVL RAKESLKELSLAGNELGDEGARLLCETLLEPGCQLES LWKSCSFTAACCSHFSSVLAQNRFLLELQISN NRLEDAGVRELCQGLGQPGSVLRVWLADCDVSDSSCSLAATLLANHSLRELDLSNNCLGDAGILQLVE SVRQPGCLLEQLVLYDIWSEEMEDRLQALEKDKPSLRVIS
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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: 25889213)
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.



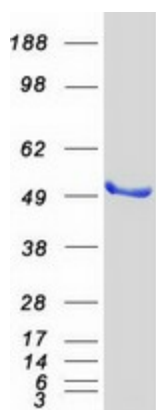
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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002930
Locus ID:	6050
UniProt ID:	P13489 , A0A140VJT8
RefSeq Size:	2057
Cytogenetics:	11p15.5
RefSeq ORF:	1383
Synonyms:	RAI; RNH
Summary:	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]).