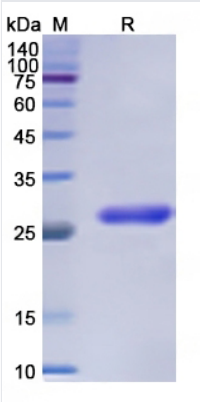
RNASEL Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	RNASEL, Recombinant Protein
Full Product Name	Recombinant Human RNASEL, N-His
Product Gene Name	RNASEL recombinant protein
Product Synonym Names	Ribonuclease L; Ribonuclease 4; 2-5A-dependent RNase; 2-5A-dependent ribonuclease; RNS4; RNASEL; RNase L
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	73,416 Da
Sequence Positions	Ile358-His583
OMIM	L10381 Genomic DNA
3D Structure	ModBase 3D Structure for Q05823
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for RNASEL recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RNASEL recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for RNASEL recombinant protein	MBS1574492 is a recombinant protein targeting RNASEL. Also known as Recombinant Human RNASEL, N-His. Host: E coli.
Other Notes	Small volumes of RNASEL recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of RNASEL recombinant protein
SDS PAGE for recombinant Human RNASEL

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNASEL. It may not necessarily be applicable to this product.

NCBI GI #	10863929
NCBI GeneID	6041
NCBI Accession #	NP_066956.1
UniProt Primary Accession #	Q05823
UniProt Secondary Accession #	Q5W0L2; Q6AI46
UniProt Related Accession #	Q05823
GenBank Nucleotide #	NM_021133.3
NCBI Official Full Name	2-5A-dependent ribonuclease
NCBI Official Synonym Full Names	ribonuclease L
NCBI Official Symbol	RNASEL
NCBI Official Synonym Symbols	RNS4; PRCA1
UniProt Protein Name	2-5A-dependent ribonuclease
UniProt Synonym Protein Names	Ribonuclease 4; Ribonuclease L; RNase L
Protein Family	2-5A-dependent ribonuclease
UniProt Gene Name	RNASEL
UniProt Synonym Gene Names	RNS4; 2-5A-dependent RNase; RNase L
NCBI Protein Information	2-5A-dependent ribonuclease
NCBI Summary for RNASEL	This gene encodes a component of the interferon-regulated 2-5A system that functions in the antiviral and antiproliferative roles of interferons. Mutations in this gene have been associated with predisposition to prostate cancer and this gene is a candidate for the hereditary prostate cancer 1 (HPC1) allele. [provided by RefSeq, Jul 2008]

UniProt Comments for RNASEL	Endoribonuclease that functions in the interferon (IFN) antiviral response. In INF treated and virus infected cells, RNASEL probably mediates its antiviral effects through a combination of direct cleavage of single-stranded viral RNAs, inhibition of protein synthesis through the degradation of rRNA, induction of apoptosis, and induction of other antiviral genes. RNASEL mediated apoptosis is the result of a JNK-dependent stress-response pathway leading to cytochrome c release from mitochondria and caspase-dependent apoptosis. Therefore, activation of RNASEL could lead to elimination of virus infected cells under some circumstances. In the crosstalk between autophagy and apoptosis proposed to induce autophagy as an early stress response to small double-stranded RNA and at later stages of prolonged stress to activate caspase-dependent proteolytic cleavage of BECN1 to terminate autophagy and promote apoptosis (PubMed:26263979). Might play a central role in the regulation of mRNA turnover (PubMed:11585831).
Research Articles on RNASEL	**1.** Suggest that naturally occurring mutations in the RNase L gene might promote enhanced prostate cancer cell migration and metastasis.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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