Ribonuclease H2 Subunit A (RNH201) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribonuclease H2 subunit A (RNH201), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae Ribonuclease H2 subunit A (RNH201)
Product Gene Name	RNH201 recombinant protein
Sequence	MVPPTVEASL ESPYTKSYFS PVPSALLEQN DSPIIMGIDE AGRGPVLGPM VYAVAYSTQK YQDETIIPNY EFDDSKKLTD PIRRMLFSKI YQDNEELTQI GYATTCITPL DISRGMSKFP PTRNYNLNEQ AHDVTMALID GVIKQNVKLS HVYVDTVGPP ASYQKKLEQR FPGVKFTVAK KADSLYCMVS VASVVAKVTR DILVESLKRD PDEILGSGYP SDPKTVAWLK RNQTSLMGWP ANMVRFSWQT CQTLLDDASK NSIPIKWEEQ YMDSRKNAAQ KTKQLQLQMV AKPVRRKRLR TLDNWYR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34,875 Da
Sequence Positions	1-307, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P53942
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RNH201 recombinant protein	MBS1238892 is a recombinant protein targeting RNH201. Also known as Recombinant Saccharomyces cerevisiae Ribonuclease H2 subunit A (RNH201). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RNH201 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RNH201. It may not necessarily be applicable to this product.

NCBI GI #	6324257
NCBI GeneID	855652
NCBI Accession #	NP_014327.1
UniProt Primary Accession #	P53942
UniProt Secondary Accession #	D6W1A7

UniProt Related Accession #	P53942
GenBank Nucleotide #	NM_001182910.1
NCBI Official Full Name	ribonuclease H2 catalytic subunit RNH201
NCBI Official Symbol	RNH201
NCBI Official Synonym Symbols	RNH35
UniProt Protein Name	Ribonuclease H2 subunit A
UniProt Synonym Protein Names	RNase H(201); RNase H(35); Ribonuclease HI large subunit; RNase HI large subunit; Ribonuclease HI subunit A
UniProt Gene Name	RNH201
UniProt Synonym Gene Names	RNH35; RNase H2 subunit A; RNase HI large subunit
NCBI Protein Information	ribonuclease H2 catalytic subunit RNH201
UniProt Comments for RNH201	Catalytic subunit of RNase HII, an endonuclease that specifically degrades the RNA of RNA:DNA hybrids. Participates in DNA replication, possibly by mediating the removal of lagging-strand Okazaki fragment RNA primers during DNA replication. Mediates the excision of single ribonucleotides from DNA:RNA duplexes.Miscellaneous: Present with 623 molecules/cell in log phase SD medium.
Research Articles on RNH201	**1.** Both R-loop removal and RER activities of RNase H2 contribute substantially to chromosome stability, and that their relative contributions may be variable across different regions of the genome. In this scenario, a prominent contribution of R-loop removal may be expected at highly transcribed regions, whereas RER may play a greater role at hotspots of ribonucleotide incorporation.
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