Ribonuclease 3 (DROSHA) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribonuclease 3 (DROSHA), Recombinant Protein
Full Product Name	Recombinant Human Ribonuclease 3 (DROSHA) , partial
Product Gene Name	DROSHA recombinant protein
Product Synonym Gene Name	DROSHA
Sequence	NDPKSQLQQC CLTLRTEGKE PDIPLYKTLQ TVGPSHARTY TVAVYFKGER IGCGKGPSIQ QAEMGAAMDA LEKYNFPQMA HQKRFIERKY RQELKEMRWE REHQEREPDE TEDIKK
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	155,333 Da
Sequence Positions	1259-1374aa; Partial
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.
OMIM	608828
3D Structure	ModBase 3D Structure for Q9NRR4
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DROSHA recombinant protein	MBS1402993 is a recombinant protein targeting DROSHA. Also known as Recombinant Human Ribonuclease 3 (DROSHA) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DROSHA 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 DROSHA. It may not necessarily be applicable to this product.

NCBI GI #	155030236
NCBI GeneID	29102
NCBI Accession #	NP_001093882.1
UniProt Primary Accession #	Q9NRR4
UniProt Secondary Accession #	Q7Z5V2; Q86YH0; Q9NW73; Q9Y2V9; Q9Y4Y0; E7EMP9

UniProt Related Accession #	Q9NRR4
GenBank Nucleotide #	NM_001100412.1
NCBI Official Full Name	ribonuclease 3 isoform 2
NCBI Official Synonym Full Names	drosha ribonuclease III
NCBI Official Symbol	DROSHA
NCBI Official Synonym Symbols	RN3; ETOHI2; RNASEN; RANSE3L; RNASE3L; HSA242976
UniProt Protein Name	Ribonuclease 3
UniProt Synonym Protein Names	Protein Drosha
UniProt Gene Name	DROSHA
UniProt Synonym Gene Names	RN3; RNASE3L; RNASEN; RNase III
NCBI Protein Information	ribonuclease 3
NCBI Summary for DROSHA	This gene encodes a ribonuclease (RNase) III double-stranded RNA-specific ribonuclease and subunit of the microprocessor protein complex, which catalyzes the initial processing step of microRNA (miRNA) synthesis. The encoded protein cleaves the stem loop structure from the primary microRNA (pri-miRNA) in the nucleus, yielding the precursor miRNA (pre-miRNA), which is then exported to the cytoplasm for further processing. In a human cell line lacking a functional copy of this gene, canonical miRNA synthesis is reduced. Somatic mutations in this gene have been observed in human patients with kidney cancer. [provided by RefSeq, Sep 2016]
UniProt Comments for DROSHA	Ribonuclease III double-stranded (ds) RNA-specific endoribonuclease that is involved in the initial step of microRNA (miRNA) biogenesis. Component of the microprocessor complex that is required to process primary miRNA transcripts (pri-miRNAs) to release precursor miRNA (pre-miRNA) in the nucleus. Within the microprocessor complex, DROSHA cleaves the 3' and 5' strands of a stem-loop in pri-miRNAs (processing center 11 bp from the dsRNA-ssRNA junction) to release hairpin-shaped pre-miRNAs that are subsequently cut by the cytoplasmic DICER to generate mature miRNAs. Involved also in pre-rRNA processing. Cleaves double-strand RNA and does not cleave single-strand RNA. Involved in the formation of GW bodies.
Research Articles on DROSHA	**1.** point mutations in the RNaseIIIb domain of Drosha implicated in Wilms tumors differentially affected cleavage of the 5' and 3' strands of pri-miRNAs in vitro.
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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