3'-5' Exoribonuclease 1 (ERI1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	3'-5' exoribonuclease 1 (Eri1), Recombinant Protein
Full Product Name	Recombinant Rat 3'-5' exoribonuclease 1 (Eri1)
Product Gene Name	Eri1 recombinant protein
Product Synonym Gene Name	Eri1
Sequence	MEDERGREHG GDAAQQKTPR PECEESRPLS VEKKQRCRLD GKDTDGSKFI TSNGGDFSDP VYKEIAMTNG CINRMSKEEL RAKLSEFKLE TRGVKDVLKK RLKNYYKKQK LMLKESNAVD SYYDYICIID FEATCEEGNP AEFLHEIIEF PVVLLNTHSL EIEDTFQQYV RPEVNSQLSE FCIGLTGITQ DQVDRADAFP QVLKKVIEWM KSKELGTKYK YCILTDGSWD MSKFLNIQCQ LSRLKYPSFA KKWINIRKSY GNFYKVPRSQ TKLTIMLEKL GMDYDGRPHS GLDDSKNIAR IAVRMLQDGC ELRINEKLHG GQLMSVSSSL PVEGAPAPQM PHSRK
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	39,580 Da
Sequence Positions	1-345, 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 Q5FVR4
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Eri1 recombinant protein	MBS1455603 is a recombinant protein targeting Eri1. Also known as Recombinant Rat 3'-5' exoribonuclease 1 (Eri1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Eri1 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 Eri1. It may not necessarily be applicable to this product.

NCBI GI #	62079013
NCBI GeneID	361159
NCBI Accession #	NP_001014165.1
UniProt Primary Accession #	Q5FVR4
UniProt Related Accession #	Q5FVR4

GenBank Nucleotide #	NM_001014143.1
NCBI Official Full Name	3'-5' exoribonuclease 1
NCBI Official Synonym Full Names	exoribonuclease 1
NCBI Official Symbol	Eri1
NCBI Official Synonym Symbols	Thex1; RGD1308378
UniProt Protein Name	3'-5' exoribonuclease 1
UniProt Synonym Protein Names	Histone mRNA 3'-exonuclease 1
Protein Family	3'-5' exonuclease
UniProt Gene Name	Eri1
UniProt Synonym Gene Names	Thex1
NCBI Protein Information	3'-5' exoribonuclease 1
UniProt Comments for Eri1	RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Binds with high affinity to the 3' side of the stem-loop structure and to the downstream cleavage product (DCP) of histone pre-mRNAs. Requires for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs. Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA ().
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