Gtpase Era, Mitochondrial (ERAL1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	GTPase Era, mitochondrial (Eral1), Recombinant Protein
Full Product Name	Recombinant Mouse GTPase Era, mitochondrial (Eral1)
Product Gene Name	Eral1 recombinant protein
Product Synonym Gene Name	Eral1
Sequence	VGSHAGREWL APPGCLLGNQ ARCVSCVVGS TFSGPLLASA SSRYGQDSAL DRILGFSQPD SSLVPSVPAV SVHRDEQNLL LVHTPDMPEN PRVLRVVLLG APNAGKSTLS NQLLGRKVFP VSKKVHTTRC QALGVITEKE TQVILLDTPG IISPVKQKRH HLERSLLEDP WTSMESADLV VVLVDVSDKW TRSRLNPQVL QCLTKFSQVP SILVLNKVDC LKQKSVLLEL TAALTEGVVN GKKLNIKQAL RSRSSTHCPG PETEGPNAHS VRNPQRIGWP YFQEIFMLSA LNNKDVNTLK QYLLTQAQPG PWEFHSGVLT SQTPEEICAN KIREKLLEYL PEEVPYGVQQ KTVIWEEGPS GELVIQQNLL VPKESHVRIL IGQKGLLISQ IAQEVGRDLM DIFHCDVLIR LSVKLLK
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	48,187 Da
Sequence Positions	21-437, 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 Q9CZU4
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Eral1 recombinant protein	MBS1470939 is a recombinant protein targeting Eral1. Also known as Recombinant Mouse GTPase Era, mitochondrial (Eral1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Eral1 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 Eral1. It may not necessarily be applicable to this product.

NCBI GI #	165377197
NCBI GeneID	57837
NCBI Accession #	NP_071708.2
UniProt Primary Accession #	Q9CZU4

UniProt Secondary Accession #	Q6NV78; Q8VE60; Q925U1
UniProt Related Accession #	Q9CZU4
GenBank Nucleotide #	NM_022313.2
NCBI Official Full Name	GTPase Era, mitochondrial
NCBI Official Synonym Full Names	Era (G-protein)-like 1 (E. coli)
NCBI Official Symbol	Eral1
NCBI Official Synonym Symbols	Era; M-ERA; MERA-S; MERA-W; AU019798; 2610524P08Rik; 9130407C09Rik
UniProt Protein Name	GTPase Era, mitochondrial
UniProt Synonym Protein Names	Conserved ERA-like GTPase; CEGA; ERA-W; ERA-like protein 1
UniProt Gene Name	Eral1
UniProt Synonym Gene Names	Mera; M-ERA; CEGA
NCBI Protein Information	GTPase Era, mitochondrial
UniProt Comments for Eral1	Probable GTPase that plays a role in the mitochondrial ribosomal small subunit assembly. Specifically binds the 12S mitochondrial rRNA (12S mt-rRNA) to a 33 nucleotide section delineating the 3' terminal stem-loop region. May act as a chaperone that protects the 12S mt-rRNA on the 28S mitoribosomal subunit during ribosomal small subunit assembly ().
Research Articles on Eral1	**1.** The authors show that the defect in mitoribosomal assembly is a consequence of the accumulation of ERAL1, a putative 12S rRNA chaperone, and novel ClpXP substrate.
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