40s Ribosomal Protein S21-B (RPS21B) Saccharomyces Cerevisiae Recombinant Protein

PRODUCT OVERVIEW

Product Name	40S ribosomal protein S21-B (RPS21B), Recombinant Protein
Full Product Name	Recombinant Saccharomyces cerevisiae 40S ribosomal protein S21-B (RPS21B)
Product Gene Name	RPS21B recombinant protein
Product Synonym Gene Name	RPS21B
Sequence	MENDKGQLVE LYVPRKCSAT NRIIKADDHA SVQINVAKVD EEGRAIPGEY ITYALSGYVR SRGESDDSLN RLAQNDGLLK NVWSYSR
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	9,760 Da
Sequence Positions	1-87, 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 Q3E754
Species	Saccharomyces cerevisiae (strain 204508 / S288c) (Baker's yeast)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RPS21B recombinant protein	MBS1384714 is a recombinant protein targeting RPS21B. Also known as Recombinant Saccharomyces cerevisiae 40S ribosomal protein S21-B (RPS21B). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of RPS21B 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 RPS21B. It may not necessarily be applicable to this product.

NCBI GI #	6322325
NCBI GeneID	853305
NCBI Accession #	NP_012399.1
UniProt Primary Accession #	Q3E754
UniProt Secondary Accession #	P05760; D6VW49
UniProt Related Accession #	Q3E754

GenBank Nucleotide #	NM_001181569.1
NCBI Official Full Name	ribosomal 40S subunit protein S21B
NCBI Official Symbol	RPS21B
UniProt Protein Name	40S ribosomal protein S21-B
UniProt Synonym Protein Names	S26; Small ribosomal subunit protein eS21-B
Protein Family	40S ribosomal protein
UniProt Gene Name	RPS21B
NCBI Protein Information	ribosomal 40S subunit protein S21B
UniProt Comments for RPS21B	Component of the ribosome, a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell. The small ribosomal subunit (SSU) binds messenger RNAs (mRNAs) and translates the encoded message by selecting cognate aminoacyl-transfer RNA (tRNA) molecules. The large subunit (LSU) contains the ribosomal catalytic site termed the peptidyl transferase center (PTC), which catalyzes the formation of peptide bonds, thereby polymerizing the amino acids delivered by tRNAs into a polypeptide chain. The nascent polypeptides leave the ribosome through a tunnel in the LSU and interact with protein factors that function in enzymatic processing, targeting, and the membrane insertion of nascent chains at the exit of the ribosomal tunnel (PubMed:22096102). eS21 is required for the processing of the 20S rRNA-precursor to mature 18S rRNA in a late step of the maturation of 40S ribosomal subunits. Has a physiological role leading to 18S rRNA stability (PubMed:14627813).
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