Glucose-1-Phosphate Thymidylyltransferase (rmlA) Salmonella Typhimurium Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glucose-1-phosphate thymidylyltransferase (rmlA), Recombinant Protein
Full Product Name	Recombinant Salmonella typhimurium Glucose-1-phosphate thymidylyltransferase (rmlA)
Product Gene Name	rmlA recombinant protein
Sequence	MKTRKGIILA GGSGTRLYPV TMAVSKQLLP IYDKPMIYYP LSTLMLAGIR DILIISTPQD TPRFQQLLGD GSQWGLNLQY KVQPSPDGLA QAFIIGEEFI GHDDCALVLG DNIFYGHDLP KLMEAAVNKE SGATVFAYHV NDPERYGVVE FDQKGTAVSL EEKPLQPKSN YAVTGLYFYD NSVVEMAKNL KPSARGELEI TDINRIYMEQ GRLSVAMMGR GYAWLDTGTH QSLIEASNFI ATIEERQGLK VSCPEEIAFR KNFINAQQVI ELAGPLSKND YGKYLLKMVK GL
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	32,453 Da
Sequence Positions	1-292, 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 P26393
Species	Salmonella typhimurium (strain LT2 / SGSC1412 / 700720)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rmlA recombinant protein	MBS1236133 is a recombinant protein targeting rmlA. Also known as Recombinant Salmonella typhimurium Glucose-1-phosphate thymidylyltransferase (rmlA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rmlA 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 rmlA. It may not necessarily be applicable to this product.

NCBI GI #	16765425
NCBI GeneID	1253616
NCBI Accession #	NP_461040.1
UniProt Primary Accession #	P26393
UniProt Related Accession #	P26393

GenBank Nucleotide #	NC_003197.2
NCBI Official Full Name	glucose-1-phosphate thymidylyltransferase
NCBI Official Symbol	rfbA
UniProt Protein Name	Glucose-1-phosphate thymidylyltransferase
UniProt Synonym Protein Names	dTDP-glucose pyrophosphorylase; Ep; dTDP-glucose synthase
Protein Family	Glucose-1-phosphate thymidylyltransferase
UniProt Gene Name	rmlA
UniProt Synonym Gene Names	rfbA; Ep
NCBI Protein Information	glucose-1-phosphate thymidylyltransferase
UniProt Comments for rmlA	Catalyzes the formation of dTDP-glucose, from dTTP and glucose 1-phosphate, as well as its pyrophosphorolysis. Is also able to convert non natural substrates such as a wide array of alpha-D-hexopyranosyl, deoxy-alpha-D-glucopyranosyl, aminodeoxy-alpha-D-hexopyranosyl and acetamidodeoxy-alpha-D-hexopyranosyl phosphates to their corresponding dTDP- and UDP-nucleotide sugars.
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