Peptide Chain Release Factor 3 (prfC) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peptide chain release factor 3 (prfC), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Peptide chain release factor 3 (prfC)
Product Gene Name	prfC recombinant protein
Product Synonym Gene Name	prfC
Sequence	MTSLLAAEVA KRRTFAIISH PDAGKTTITE KVLLFGQAIQ TAGTVKGRGS NQHAKSDWME MEKQRGISIT TSVMQFPYHD CLVNLLDTPG HEDFSEDTYR TLTAVDCCLM VIDAAKGVED RTRKLMEVTR LRDTPILTFM NKLDRDIRDP MELLDEVENE LKIGCAPITW PIGCGKLFKG VYHLYKDETY LYQSGKGHTI QEVRIVKGLN NPDLDAAVGE DLAQQLRDEL ELVKGASNEF DKELFLAGEI TPVFFGTALG NFGVDHMLDG LVEWAPAPMP RQTDTRTVEA SEDKFTGFVF KIQANMDPKH RDRVAFMRVV SGKYEKGMKL RQVRTAKDVV ISDALTFMAG DRSHVEEAYP GDILGLHNHG TIQIGDTFTQ GEMMKFTGIP NFAPELFRRI RLKDPLKQKQ LLKGLVQLSE EGAVQVFRPI SNNDLIVGAV GVLQFDVVVA RLKSEYNVEA VYESVNVATA RWVECADAKK FEEFKRKNES QLALDGGDNL AYIATSMVNL RLAQERYPDV QFHQTREH
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	59,328 Da
Sequence Positions	1-528, 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 Q1R270
Species	Escherichia coli (strain UTI89 / UPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for prfC recombinant protein	MBS1434036 is a recombinant protein targeting prfC. Also known as Recombinant Escherichia coli Peptide chain release factor 3 (prfC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of prfC 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 prfC. It may not necessarily be applicable to this product.

NCBI GI #	446124708
NCBI Accession #	WP_000202563.1
UniProt Primary Accession #	Q1R270

GenBank Nucleotide #	WP_000202563.1
NCBI Official Full Name	MULTISPECIES: peptide chain release factor 3
UniProt Protein Name	Peptide chain release factor 3
Protein Family	Peptide chain release factor
UniProt Gene Name	prfC
UniProt Synonym Gene Names	RF-3
UniProt Comments for prfC	Increases the formation of ribosomal termination complexes and stimulates activities of RF-1 and RF-2. It binds guanine nucleotides and has strong preference for UGA stop codons. It may interact directly with the ribosome. The stimulation of RF-1 and RF-2 is significantly reduced by GTP and GDP, but not by GMP.
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