# Peptide Chain Release Factor 1 (prfA) Escherichia Coli Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Peptide chain release factor 1 (prfA), Recombinant Protein |
| **Full Product Name** | Recombinant Escherichia coli Peptide chain release factor 1 (prfA) |
| **Product Gene Name** | prfA recombinant protein |
| **Product Synonym Gene Name** | prfA |
| **Sequence** | MKPSIVAKLE ALHERHEEVQ ALLGDAQTIA DQERFRALSR EYAQLSDVSR CFTDWQQVQE DIETAQMMLD DPEMREMAQD ELREAKEKSE QLEQQLQVLL LPKDPDDERN AFLEVRAGTG GDEAALFAGD LFRMYSRYAE ARRWRVEIMS ASEGEHGGYK EIIAKISGDG VYGRLKFESG GHRVQRVPAT ESQGRIHTSA CTVAVMPELP DAELPDINPA DLRIDTFRSS GAGGQHVNTT DSAIRITHLP TGIVVECQDE RSQHKNKAKA LSVLGARIHA AEMAKRQQAE ASTRRNLLGS GDRSDRNRTY NFPQGRVTDH RINLTLYRLD EVMEGKLDML IEPIIQEHQA DQLAALSEQE |
| **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** | 40,517 Da |
| **Sequence Positions** | 1-360, 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 Q1RCM7 |
| **Species** | Escherichia coli (strain UTI89 / UPEC) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for prfA recombinant protein** | MBS1427105 is a recombinant protein targeting prfA. Also known as Recombinant Escherichia coli Peptide chain release factor 1 (prfA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of prfA 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 prfA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446727413 |
| **NCBI Accession #** | WP_000804726.1 |
| **UniProt Primary Accession #** | Q1RCM7 |
| **GenBank Nucleotide #** | WP_000804726.1 |

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| **NCBI Official Full Name** | MULTISPECIES: peptide chain release factor 1 |
| **UniProt Protein Name** | Peptide chain release factor 1 |
| **Protein Family** | Listeriolysin regulatory protein |
| **UniProt Gene Name** | prfA |
| **UniProt Synonym Gene Names** | RF-1 |
| **UniProt Comments for prfA** | Peptide chain release factor 1 directs the termination of translation in response to the peptide chain termination codons UAG and UAA. |
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