# Pyrroline-5-Carboxylate Reductase (proC) Staphylococcus Aureus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Pyrroline-5-carboxylate reductase (proC), Recombinant Protein |
| **Full Product Name** | Recombinant Staphylococcus aureus Pyrroline-5-carboxylate reductase (proC) |
| **Product Gene Name** | proC recombinant protein |
| **Product Synonym Gene Name** | proC |
| **Sequence** | MKLVFYGAGN MAQAIFTGII NSSNLDANDI YLTNKSNEQA LKAFAEKLGV NYSYDDATLL KDADYVFLGT KPHDFDALAT RIKPHITKDN CFISIMAGIP IDYIKQQLEC QNPVARIMPN TNAQVGHSVT GISFSNNFDP KSKDEINDLV KAFGSVIEVS EDHLHQVTAI TGSGPAFLYH VFEQYVKAGT KLGLEKEQVE ESIRNLIIGT SKMIERSDLS MAQLRKNITS KGGTTQAGLD TLSQYDLVSI FEDCLNAAVD RSIELSNIED Q |
| **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** | 29,840 Da |
| **Sequence Positions** | 1-271, 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 Q5HFR9 |
| **Species** | Staphylococcus aureus (strain COL) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for proC recombinant protein** | MBS1406632 is a recombinant protein targeting proC. Also known as Recombinant Staphylococcus aureus Pyrroline-5-carboxylate reductase (proC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of proC 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 proC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 446702402 |
| **NCBI Accession #** | WP_000779748.1 |
| **UniProt Primary Accession #** | Q5HFR9 |
| **GenBank Nucleotide #** | WP_000779748.1 |
| **NCBI Official Full Name** | MULTISPECIES: pyrroline-5-carboxylate reductase |

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| **UniProt Protein Name** | Pyrroline-5-carboxylate reductase |
| **UniProt Synonym Protein Names** | PCA reductase |
| **Protein Family** | Vitamin K-dependent protein |
| **UniProt Gene Name** | proC |
| **UniProt Synonym Gene Names** | P5C reductase; P5CR |
| **UniProt Comments for proC** | Catalyzes the reduction of 1-pyrroline-5-carboxylate (PCA) to L-proline. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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