# NAD (P) Transhydrogenase Subunit Alpha Part 1 (pntAA) Rhodospirillum Rubrum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | NAD (P) transhydrogenase subunit alpha part 1 (pntAA), Recombinant Protein |
| **Full Product Name** | Recombinant Rhodospirillum rubrum NAD (P) transhydrogenase subunit alpha part 1 |
| **Product Gene Name** | pntAA recombinant protein |
| **Sequence** | MKIAIPKERR PGEDRVAISP EVVKKLVGLG FEVIVEQGAG VGASITDDAL TAAGATIAST AAQALSQADV VWKVQRPMTA EEGTDEVALI KEGAVLMCHL GALTNRPVVE ALTKRKITAY AMELMPRISR AQSMDILSSQ SNLAGYRAVI DGAYEFARAF PMMMTAAGTV PPARVLVFGV GVAGLQAIAT AKRLGAVVMA TDVRAATKEQ VESLGGKFIT VDDEAMKTAE TAGGYAKEMG EEFRKKQAEA VLKELVKTDI AITTALIPGK PAPVLITEEM VTKMKPGSVI IDLAVEAGGN CPLSEPGKIV VKHGVKIVGH TNVPSRVAAD ASPLFAKNLL NFLTPHVDKD TKTLVMKLED ETVSGTCVTR DGAIVHPALT GQGA |
| **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** | 40,277 Da |
| **Sequence Positions** | 1-384, 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 P0C186 |
| **Species** | Rhodospirillum rubrum |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for pntAA recombinant protein** | MBS1230091 is a recombinant protein targeting pntAA. Also known as Recombinant Rhodospirillum rubrum NAD (P) transhydrogenase subunit alpha part 1. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of pntAA 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 pntAA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 91207608 |
| **NCBI Accession #** | P0C186.1 |
| **UniProt Primary Accession #** | P0C186 |
| **UniProt Secondary Accession #** | Q60164 |

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| **NCBI Official Full Name** | NAD(P) transhydrogenase subunit alpha part 1 |
| **UniProt Protein Name** | NAD(P) transhydrogenase subunit alpha part 1 |
| **UniProt Synonym Protein Names** | Nicotinamide nucleotide transhydrogenase subunit alpha 1; Proton-translocating transhydrogenase component 1; Pyridine nucleotide transhydrogenase subunit alpha 1; dI |
| **Protein Family** | NAD(P) transhydrogenase |
| **UniProt Gene Name** | pntAA |
| **UniProt Synonym Gene Names** | nntA1 |
| **UniProt Comments for pntAA** | The transhydrogenation between NADH and NADP is coupled to respiration and ATP hydrolysis and functions as a proton pump across the membrane. |
| **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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