# 3-Phosphoshikimate 1-Carboxyvinyltransferase (aroA) Rhodococcus Erythropolis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 3-phosphoshikimate 1-carboxyvinyltransferase (aroA), Recombinant Protein |
| **Full Product Name** | Recombinant Rhodococcus erythropolis 3-phosphoshikimate 1-carboxyvinyltransferase (aroA) |
| **Product Gene Name** | aroA recombinant protein |
| **Sequence** | MDHVSLSLWS APRAQAPVDA VVTLPGSKSI TNRALILAAL ADGPSTITGA LRSRDADLMI AALRDLGIGV EEAGDPTTLR ITPGPLRGGE VDCGLAGTVM RFLPPLAAMA DGIVRFDGDE QARTRPLGTI LEALRGLGAR IEGDALPFTV TGTGSLRGGT VTIDASGSSQ FVSGLLLSAA AFEEGVTVHH DGKPVPSMPH IDMTVEMLRQ SGVSVTTPAT GGDADTWRVA PGPVRAVDWA IEPDLSNATP FLAAAAVTGG TVSVPMWPSS TTQPGDAIRG ILASMGADVT LADGVLTVRG PEKLRGIDID LHDVGELTPT VAALAALAEG TSHLRGIAHL RGHETDRLAA LADEINKLGG SVTETDDGLT IVPAELHGGQ WLSYADHRMA TAGAIIGLVV DGVDVDDVGT TAKTLPGFEN MWIDMLESSP ATPKASF |
| **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** | 44,918 Da |
| **Sequence Positions** | 1-437, 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 C0ZX05 |
| **Species** | Rhodococcus erythropolis (strain PR4 / NBRC 100887) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for aroA recombinant protein** | MBS1263453 is a recombinant protein targeting aroA. Also known as Recombinant Rhodococcus erythropolis 3-phosphoshikimate 1-carboxyvinyltransferase (aroA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of aroA 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 aroA. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 518577584 |
| **NCBI Accession #** | WP_019747791.1 |
| **UniProt Primary Accession #** | C0ZX05 |
| **GenBank Nucleotide #** | WP_019747791.1 |

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| **NCBI Official Full Name** | MULTISPECIES: 3-phosphoshikimate 1-carboxyvinyltransferase |
| **UniProt Protein Name** | 3-phosphoshikimate 1-carboxyvinyltransferase |
| **UniProt Synonym Protein Names** | 5-enolpyruvylshikimate-3-phosphate synthase |
| **Protein Family** | 2-amino-3,7-dideoxy-D-threo-hept-6-ulosonate synthase |
| **UniProt Gene Name** | aroA |
| **UniProt Synonym Gene Names** | EPSP synthase; EPSPS |
| **UniProt Comments for aroA** | Catalyzes the transfer of the enolpyruvyl moiety of phosphoenolpyruvate (PEP) to the 5-hydroxyl of shikimate-3-phosphate (S3P) to produce enolpyruvyl shikimate-3-phosphate and inorganic phosphate. |
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