3-Phosphoshikimate 1-Carboxyvinyltransferase (aroA) Roseiflexus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	3-phosphoshikimate 1-carboxyvinyltransferase (aroA), Recombinant Protein
Full Product Name	Recombinant Roseiflexus sp. 3-phosphoshikimate 1-carboxyvinyltransferase (aroA)
Product Gene Name	aroA recombinant protein
Sequence	MMIYSITPPH RLRGIIDLPG DKSISHRAIL LNAVAAGSAE ITNFLTGADC LSTIACVQAL GVHIERQGTT VRVDGAGLRG LREPVDVLDC GNSGTTLRLL AGMIAGQEGM FAVLTGDSSL RSRPQQRIVA PLRALGASLD GRQQGNCAPL AVRGAHLHGG AYELPIASAQ VKSALLLAAL FGDAPLTLTG RTDGRDHTER MLAAMGVEIT VNTPVIRLTP PAHSDALRPL SLRAPGDPSS AAFWWVAAAI HPDAELTTTG VCLNPTRTGA LDALRAMGAQ IEVTNQRIEG SEPVGDVTVR SSQLRGITIE GALIPRLIDE LPVLALAAAC AEGETIIRDA QELRVKETDR IATAASGLTA LGATVEPTSD GMVISGGARL RGASLDSHGD HRLAMTWAIA GLVASGETTL RGAGAVDVSY PEFWGVLARV AER
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	45,062 Da
Sequence Positions	1-433, 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 A5UZF9
Species	Roseiflexus sp. (strain RS-1)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for aroA recombinant protein	MBS1253386 is a recombinant protein targeting aroA. Also known as Recombinant Roseiflexus sp. 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.

NCBI GI #	500596718
NCBI Accession #	WP_011958354.1
UniProt Primary Accession #	A5UZF9
GenBank Nucleotide #	WP_011958354.1

NCBI Official Full Name	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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