Tryptophan Synthase Alpha Chain (trpA) Xylella Fastidiosa Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tryptophan synthase alpha chain (trpA), Recombinant Protein
Full Product Name	Recombinant Xylella fastidiosa Tryptophan synthase alpha chain (trpA)
Product Gene Name	trpA recombinant protein
Product Synonym Gene Name	trpA
Product Synonym Names	Recombinant Tryptophan synthase alpha chain (trpA); Tryptophan synthase alpha chain EC= 4.2.1.20
Sequence	MHRIDETFRR LRAQSRKALI PFITAGDPSL EAAVPVMHAL VRAGADVIEL GVPFSDPMAD GPVIQHSSER ALQRGVGLAY VLQTVDVFRQ SDAVTPVVLM GYLNPLEIYG IARFTQQALA SGVDGVLLVD LPPEEADEIR AIFSAAGLAL IVLASPTTSA SRLATLSGVA QGYLYYVSFA GVTGADRLDA QSAGDRLRGL RAQTQVPVVV GFGIRDAASA VVMAVDADGV VVGSALVTAL SDAPDVDTAC RRADAFLAPL RQALDAVK
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	28,079 Da
Sequence Positions	1-268aa; 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 B2I9J3
Species	Xylella fastidiosa (strain M23)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for trpA recombinant protein	MBS1261587 is a recombinant protein targeting trpA. Also known as Recombinant Xylella fastidiosa Tryptophan synthase alpha chain (trpA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of trpA 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 trpA. It may not necessarily be applicable to this product.

NCBI GI #	182681201
NCBI GeneID	6203301
NCBI Accession #	YP_001829361.1
UniProt Primary Accession #	B2I9J3
GenBank Nucleotide #	NC_010577.1

NCBI Official Full Name	tryptophan synthase subunit alpha
UniProt Protein Name	Tryptophan synthase alpha chain
Protein Family	Tryptophan synthase
UniProt Gene Name	trpA
UniProt Entry Name	TRPA_XYLF2
UniProt Comments for trpA	Function: The alpha subunit is responsible for the aldol cleavage of indoleglycerol phosphate to indole and glyceraldehyde 3-phosphate By similarity. HAMAP-Rule MF_00131 Catalytic activity: L-serine + 1-C-(indol-3-yl)glycerol 3-phosphate = L-tryptophan + glyceraldehyde 3-phosphate + H2O. HAMAP-Rule MF_00131 Pathway: Amino-acid biosynthesis; L-tryptophan biosynthesis; L-tryptophan from chorismate: step 5/5. HAMAP-Rule MF_00131 Subunit structure: Tetramer of two alpha and two beta chains By similarity. Sequence similarities: Belongs to the TrpA family.
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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