Tryptophan Synthase Beta Chain (trpB) Salmonella Typhimurium Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tryptophan synthase beta chain (trpB), Recombinant Protein
Full Product Name	Recombinant Salmonella typhimurium Tryptophan synthase beta chain (trpB)
Product Gene Name	trpB recombinant protein
Sequence	TTLLNPYFGE FGGMYVPQIL MPALNQLEEA FVSAQKDPEF QAQFADLLKN YAGRPTALTK CQNITAGTRT TLYLKREDLL HGGAHKTNQV LGQALLAKRM GKSEIIAETG AGQHGVASAL ASALLGLKCR IYMGAKDVER QSPNVFRMRL MGAEVIPVHS GSATLKDACN EALRDWSGSY ETAHYMLGTA AGPHPYPTIV REFQRMIGEE TKAQILDKEG RLPDAVIACV GGGSNAIGMF ADFINDTSVG LIGVEPGGHG IETGEHGAPL KHGRVGIYFG MKAPMMQTAD GQIEESYSIS AGLDFPSVGP QHAYLNSIGR ADYVSITDDE ALEAFKTLCR HEGIIPALES SHALAHALKM MREQPEKEQL LVVNLSGRGD KDIFTVHDIL KARGEI
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	42,868 Da
Sequence Positions	2-397, 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 P0A2K1
Species	Salmonella typhimurium (strain LT2 / SGSC1412 / 700720)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for trpB recombinant protein	MBS1257776 is a recombinant protein targeting trpB. Also known as Recombinant Salmonella typhimurium Tryptophan synthase beta chain (trpB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of trpB 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 trpB. It may not necessarily be applicable to this product.

NCBI GI #	16765070
NCBI GeneID	1253245
NCBI Accession #	NP_460685.1
UniProt Primary Accession #	P0A2K1
UniProt Secondary Accession #	P00933; Q56141

UniProt Related Accession #	P0A2K1
GenBank Nucleotide #	NC_003197.2
NCBI Official Full Name	tryptophan synthase subunit beta
NCBI Official Symbol	trpB
UniProt Protein Name	Tryptophan synthase beta chain
Protein Family	Tryptophan synthase
UniProt Gene Name	trpB
NCBI Protein Information	tryptophan synthase subunit beta
UniProt Comments for trpB	The beta subunit is responsible for the synthesis of L-tryptophan from indole and L-serine.
Research Articles on trpB	**1.** shortening of the side chain accompanying the replacement of beta114-Gln by Asn relaxes the steric constraints that prevent this reaction in the wild-type enzyme.
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