Thiamine Transport System Permease Protein Thip (thiP) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Thiamine transport system permease protein thiP (thiP), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Thiamine transport system permease protein thiP (thiP), partial
Product Gene Name	thiP recombinant protein
Sequence	MATRRQPLIP GWLIPGVSAT TLVVAVALAA FLALWWNAPQ DDWVAVWQDS YLWHVVRFSF WQAFLSALLS VIPAIFLARA LYRRRFPGRL ALLRLCAMTL ILPVLVAVFG ILSVYGRQGW LATLCQSLGL EWTFSPYGLQ GILLAHVFFN LPMASRLLLQ ALENIPGEQR QLAAQLGMRS WHFFRFVEWP WLRRQIPPVA ALIFMLCFAS FATVLSLGGG PQATTIELAI YQALSYDYDP ARAAMLALLQ MVCCLGLVLL SQRLSKAIAP GTTLLQGWRD PDDRLHSRIC DTVLIVLALL LLLPPLLAVI VDGVNRQLPE VLAQPVLWQA LWTSLRIALA AGVLCVVLTM MLLWSSRELR ARQKMLAGQV LEMSGMLILA MPGIVLATGF FLLLNNTIGL PQSADGIVIF TNALMAIPYA LKVLENPMRD ITARYSMLCQ SLGIEGWSRL KVVELRALKR PLAQALAFAC VLSIGDFGVV ALFGNDDFRT LPFYLYQQIG SYRSQDGAVT ALILLLLCFL LFTVIEKLPG RNVKTD
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	59,533 Da
Sequence Positions	1-536
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 P31549
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for thiP recombinant protein	MBS1238275 is a recombinant protein targeting thiP. Also known as Recombinant Escherichia coli Thiamine transport system permease protein thiP (thiP), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of thiP 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 thiP. It may not necessarily be applicable to this product.

NCBI GI #	16128061
NCBI GeneID	944784
NCBI Accession #	NP_414609.1

UniProt Primary Accession #	P31549
UniProt Secondary Accession #	P75636
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	thiamine/thiamine pyrophosphate ABC transporter permease
NCBI Official Symbol	thiP
NCBI Official Synonym Symbols	ECK0068; JW0066; sfuB; yabK
UniProt Protein Name	Thiamine transport system permease protein ThiP
Protein Family	Thiamine transport system permease protein
UniProt Gene Name	thiP
UniProt Synonym Gene Names	yabK
NCBI Protein Information	thiamine/thiamine pyrophosphate ABC transporter permease
NCBI Summary for thiP	[More information is available at EcoGene: EG11573]. The ABC transporter ThiBPQ was functionally characterized in Salmonella typhimurium where it is required for the uptake of thiamine and thiamine pyrophosphate . [More information is available at EcoCyc: EG11573].
UniProt Comments for thiP	Part of the ABC transporter complex ThiBPQ involved in thiamine import. Probably responsible for the translocation of the substrate across the membrane.
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