D-Methionine Transport System Permease Protein Meti (metI) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-methionine transport system permease protein metI (metI), Recombinant Protein
Full Product Name	Recombinant Escherichia coli D-methionine transport system permease protein metI (metI)
Product Gene Name	metI recombinant protein
Product Synonym Gene Name	metI; yaeE
Product Synonym Names	Recombinant D-methionine transport system permease protein metI (metI); D-methionine transport system permease protein metI
Sequence	MSEPMMWLLV RGVWETLAMT FVSGFFGFVI GLPVGVLLYV TRPGQIIANA KLYRTVSAIV NIFRSIPFII LLVWMIPFTR VIVGTSIGLQ AAIVPLTVGA APFIARMVEN ALLEIPTGLI EASRAMGATP MQIVRKVLLP EALPGLVNAA TITLITLVGY SAMGGAVGAG GLGQIGYQYG YIGYNATVMN TVLVLLVILV YLIQFAGDRI VRAVTRK
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	23,256 Da
Sequence Positions	1-217
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.
Chromosome Location	NC_000913.2 (220968..221621, complement)
3D Structure	ModBase 3D Structure for P31547
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for metI recombinant protein	MBS1227901 is a recombinant protein targeting metI. Also known as Recombinant Escherichia coli D-methionine transport system permease protein metI (metI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of metI 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 metI. It may not necessarily be applicable to this product.

NCBI GI #	16128191
NCBI GeneID	944894

NCBI Accession #	NP_414740.1
UniProt Primary Accession #	P31547
GenBank Nucleotide #	NC_000913.2
NCBI Official Full Name	DL-methionine transporter subunit
NCBI Official Symbol	metI
NCBI Official Synonym Symbols	ECK0198; JW0194; metD; yaeE
UniProt Protein Name	D-methionine transport system permease protein MetI
Protein Family	Cystathionine gamma-synthase/O-acetylhomoserine
UniProt Gene Name	metI
UniProt Synonym Gene Names	yaeE
UniProt Entry Name	METI_ECOLI
NCBI Protein Information	DL-methionine transporter subunit
NCBI Summary for metI	[More information is available at EcoCyc: EG11737].
UniProt Comments for metI	Function: Part of the binding-protein-dependent transport system for D-methionine and the toxic methionine analog alpha-methyl-methionine. Probably responsible for the translocation of the substrate across the membrane. Ref.6 Subcellular location: Cell inner membrane; Multi-pass membrane protein. Sequence similarities: Belongs to the binding-protein-dependent transport system permease family. CysTW subfamily.Contains 1 ABC transmembrane type-1 domain. Sequence caution: The sequence BAA03658.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on metI	**1.** crystal structure of high-affinity MetNI methionine uptake transporter was solved to 3.7 angstrom resolution; methionine binds to dimerized carboxyl-terminal domain & inhibits ATPase activity; findings are consistent with allosteric regulatory mechanism
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