Lipopolysaccharide Biosynthesis Protein Wzze (wzzE) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lipopolysaccharide biosynthesis protein wzzE (wzzE), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Lipopolysaccharide biosynthesis protein wzzE (wzzE)
Product Gene Name	wzzE recombinant protein
Product Synonym Gene Name	wzzE; wzz, yifC
Product Synonym Names	Recombinant Lipopolysaccharide biosynthesis protein wzzE (wzzE); Lipopolysaccharide biosynthesis protein wzzE
Sequence	MTQPMPGKPA EDAENELDIR GLFRTLWAGK LWIIGMGLAF ALIALAYTFF ARQEWSSTAI TDRPTVNMLG GYYSQQQFLR NLDVRSNMAS ADQPSVMDEA YKEFVMQLAS WDTRREFWLQ TDYYKQRMVG NSKADAALLD EMINNIQFIP GDFTRAVNDS VKLIAETAPD ANNLLRQYVA FASQRAASHL NDELKGAWAA RTIQMKAQVK RQEEVAKAIY DRRMNSIEQA LKIAEQHNIS RSATDVPAEE LPDSEMFLLG RPMLQARLEN LQAVGPAFDL DYDQNRAMLN TLNVGPTLDP RFQTYRYLRT PEEPVKRDSP RRAFLMIMWG IVGGLIGAGV ALTRRCSK
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	39,489 Da
Sequence Positions	1-348
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 (3967054..3968100)
3D Structure	ModBase 3D Structure for P0AG00
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for wzzE recombinant protein	MBS1252731 is a recombinant protein targeting wzzE. Also known as Recombinant Escherichia coli Lipopolysaccharide biosynthesis protein wzzE (wzzE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of wzzE 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 wzzE. It may not necessarily be applicable to this product.

NCBI GI #	90111649
NCBI GeneID	944815

NCBI Accession #	NP_418232.2
UniProt Primary Accession #	P0AG00
UniProt Secondary Accession #	P25905; P76752; Q2M893
GenBank Nucleotide #	NC_000913.2
NCBI Official Full Name	Entobacterial Common Antigen (ECA) polysaccharide chain length modulation protein
NCBI Official Symbol	wzzE
NCBI Official Synonym Symbols	ECK3777; JW5601; metNSt; wzz; yifC
UniProt Protein Name	Lipopolysaccharide biosynthesis protein WzzE
Protein Family	ECA polysaccharide chain length modulation protein
UniProt Gene Name	wzzE
UniProt Synonym Gene Names	wzz; yifC
UniProt Entry Name	WZZE_ECOLI
NCBI Protein Information	Entobacterial Common Antigen (ECA) polysaccharide chain length modulation protein
NCBI Summary for wzzE	Mutants have elevated OM vesiculation (McBroom, 2006). [More information is available at EcoGene: EG11295]. WzzE is responsible for regulating the length of phosphoglyceride-linked Enterobacterial Common Antigen (ECAPG) polysaccharide chains formed from polymerization by WzyE utilizing Lipid III in the periplasm. [More information is available at EcoCyc: EG11295].
UniProt Comments for wzzE	Subcellular location: Cell inner membrane; Multi-pass membrane protein. Sequence similarities: Belongs to the WzzB/Cld/Rol family. Sequence caution: The sequence AAA24527.1 differs from that shown. Reason: Erroneous initiation. The sequence AAA67585.1 differs from that shown. Reason: Erroneous initiation.
Research Articles on wzzE	**1.** Results suggest that the regions predicted to be coiled coils are important for Wzz function because they maintain the native conformation of the protein, although the existence of coiled coils could not be demonstrated experimentally.
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