Probable Endopeptidase Ydho (ydhO) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable endopeptidase YdhO (ydhO), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Probable endopeptidase YdhO (ydhO)
Product Gene Name	ydhO recombinant protein
Sequence	SKQARESSAT THITKKADKK KSTATTKKTQ KTAKKAASKS TTKSKTASSV KKSSITASKN AKTRSKHAVN KTASASFTEK CTKRKGYKSH CVKVKNAASG TLADAHKAKV QKATKVAMNK LMQQIGKPYR WGGSSPRTGF DCSGLVYYAY KDLVKIRIPR TANEMYHLRD AAPIERSELK NGDLVFFRTQ GRGTADHVGV YVGNGKFIQS PRTGQEIQIT SLSEDYWQRH YVGARRVMTP KTLR
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	29,917 Da
Sequence Positions	28-271, 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 P76190
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ydhO recombinant protein	MBS1257739 is a recombinant protein targeting ydhO. Also known as Recombinant Escherichia coli Probable endopeptidase YdhO (ydhO). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ydhO 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 ydhO. It may not necessarily be applicable to this product.

NCBI GI #	16129613
NCBI GeneID	945210
NCBI Accession #	NP_416172.1
UniProt Primary Accession #	P76190
UniProt Secondary Accession #	P78164
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	murein DD-endopeptidase, space-maker hydrolase
NCBI Official Symbol	mepH
NCBI Official Synonym Symbols	ECK1651; JW5270; ydhO
UniProt Protein Name	Murein DD-endopeptidase MepH
UniProt Synonym Protein Names	Murein hydrolase MepH
UniProt Gene Name	mepH
UniProt Synonym Gene Names	ydhO
NCBI Protein Information	murein DD-endopeptidase, space-maker hydrolase
NCBI Summary for ydhO	spr, nlpC, yafL and ydhO are paralogs. [More information is available at EcoGene: EG13949].
UniProt Comments for ydhO	A murein DD-endopeptidase with specificity for D-Ala-meso-diaminopimelic acid (mDAP) cross-links. Its role is probably to cleave D-Ala-mDAP cross-links to allow insertion of new glycans and thus cell wall expansion. Functionally redundant with MepM and MepH. Partially suppresses an mepS disruption mutant.
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