Protein Yhjk (yhjK) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein YhjK (yhjK), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Protein YhjK (yhjK)
Product Gene Name	yhjK recombinant protein
Product Synonym Gene Name	yhjK
Product Synonym Names	Recombinant Protein YhjK (yhjK); Protein YhjK
Sequence	MRVSRSLTIK QMAMVAAVVL VFVFIFCTVL LFHLVQQNRY NTATQLESIA RSVREPLSSA ILKGDIPEAE AILASIKPAG VVSRADVVLP NQFQALRKSF IPERPVPVMV TRLFELPVQI SLGVYSLERP ANPQPIAYLV LQADSFRMYK FVMSTLSTLV TIYLLLSLIL TVAISWCINR LILHPLRNIA RELNAIPAKE LVGHQLALPR LHQDDEIGML VRSYNLNQQL LQRHYEEQNE NAMRFPVSDL PNKALLMEML EQVVARKQTT ALMIITCETL RDTAGVLKEA QREILLLTLV EKLKSVLSPR MILAQISGYD FAVIANGVQE PWHAITLGQQ VLTIMSERLP IERIQLRPHC SIGVAMFYGD LTAEQLYSRA ISAAFTARHK GKNQIQFFDP QQMEAAQKRL TEESDILNAL ENHQFAIWLQ PQVEMTSGKL VSAEVLLRIQ QPDGSWDLPD GLIDRIECCG LMVTVGHWVL EESCRLLAAW QERGIMLPLS VNLSALQLMH PNMVADMLEL LTRYRIQPGT LILEVTESRR IDDPHAAVAI LRPLRNAGVR VALDDFGMGY AGLRQLQHMK SLPIDVLKID KMFVEGLPGD SSMIAAIIML AQSLNLQMIA EGVETEAQRD WLAKAGVGIA QGFLFARPLP IEIFEESYLE EK
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	74,381 Da
Sequence Positions	1-662
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 (3681653..3683641, complement)
3D Structure	ModBase 3D Structure for P37649
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for yhjK recombinant protein	MBS1238724 is a recombinant protein targeting yhjK. Also known as Recombinant Escherichia coli Protein YhjK (yhjK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of yhjK 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 yhjK. It may not necessarily be applicable to this product.

NCBI GI #	226524755
NCBI GeneID	948048
NCBI Accession #	NP_417986.4
UniProt Primary Accession #	P37649
UniProt Secondary Accession #	Q2M7J1
GenBank Nucleotide #	NC_000913.2
NCBI Official Full Name	predicted diguanylate cyclase
NCBI Official Symbol	yhjK
NCBI Official Synonym Symbols	ECK3514; JW5943
UniProt Protein Name	Protein YhjK
Protein Family	Protein
UniProt Gene Name	yhjK
UniProt Entry Name	YHJK_ECOLI
NCBI Protein Information	predicted diguanylate cyclase
NCBI Summary for yhjK	YhjK has a central GGDEF putative diguanylate cyclase, then a C-terminal putative cyclic-di-GMP phosphodiesterase EAL domain. [More information is available at EcoGene: EG12256]. YhjK is an inner membrane protein with three predicted transmembrane domains. [More information is available at EcoCyc: EG12256].
UniProt Comments for yhjK	Subcellular location: Cell membrane; Multi-pass membrane protein Potential. Induction: Expressed at 28 degrees Celsius in stationary phase. Ref.5 Sequence similarities: Contains 1 EAL domain.Contains 1 GGDEF domain.Contains 1 HAMP domain. Sequence caution: The sequence AAB18506.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally extended.The sequence BAE77765.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally extended.
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