Diaminopimelate Epimerase (dapF) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Diaminopimelate epimerase (dapF), Recombinant Protein
Full Product Name	Recombinant Escherichia coli Diaminopimelate epimerase (dapF)
Product Gene Name	dapF recombinant protein
Sequence	MQFSKMHGLG NDFMVVDAVT QNVFFSPELI RRLADRHLGV GFDQLLVVEP PYDPELDFHY RIFNADGSEV AQCGNGARCF ARFVRLKGLT NKRDIRVSTA NGRMVLTVTD DDLVRVNMGE PNFEPSAVPF RANKAEKTYI MRAAEQTILC GVVSMGNPHC VIQVDDVDTA AVETLGPVLE SHERFPERAN IGFMQVVKRE HIRLRVYERG AGETQACGSG ACAAVAVGIQ QGLLAEEVRV ELPGGRLDIA WKGPGHPLYM TGPAVHVYDG FIHL
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	30,209 Da
Sequence Positions	1-274, 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 P0A6K1
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapF recombinant protein	MBS1217833 is a recombinant protein targeting dapF. Also known as Recombinant Escherichia coli Diaminopimelate epimerase (dapF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dapF 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 dapF. It may not necessarily be applicable to this product.

NCBI GI #	90111650
NCBI GeneID	948364
NCBI Accession #	NP_418254.2
UniProt Primary Accession #	P0A6K1
UniProt Secondary Accession #	P08885; P78126; Q2M8B5; Q8X8P8
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	diaminopimelate epimerase
NCBI Official Symbol	dapF
NCBI Official Synonym Symbols	ECK3804; JW5592
UniProt Protein Name	Diaminopimelate epimerase
UniProt Synonym Protein Names	PLP-independent amino acid racemase
Protein Family	Diaminopimelate epimerase
UniProt Gene Name	dapF
UniProt Synonym Gene Names	DAP epimerase
NCBI Protein Information	diaminopimelate epimerase
UniProt Comments for dapF	Involved in the succinylase branch of the L-lysine biosynthesis and in the biosynthesis of the pentapeptide incorporated in the peptidoglycan moiety (PubMed:3283102). Catalyzes the stereoinversion of LL-2,6-diaminoheptanedioate (L,L-DAP) to meso-diaminoheptanedioate (meso-DAP) (PubMed:6378903, PubMed:3031013, PubMed:3042781).
Research Articles on dapF	**1.** The data suggest that the cellular level of DapF is a critical factor regulating the RppH-catalyzed pyrophosphate removal and the subsequent degradation of target mRNAs.
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