Diaminopimelate Epimerase (dapF) Carboxydothermus Hydrogenoformans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Diaminopimelate epimerase (dapF), Recombinant Protein
Full Product Name	Recombinant Carboxydothermus hydrogenoformans Diaminopimelate epimerase (dapF)
Product Gene Name	dapF recombinant protein
Product Synonym Gene Name	dapF
Sequence	MEFLKMHGLG NDFVVVDEIK NQNLVNKNLS DLAKKICDRR FGIGADGLVL LLPSEKADFK MRIINSDGSE AEMCGNAIRC VARYYVEKYN PAKKQLEVET LAGIIKPEVL ENNMVRVDMG RPILKPQEIP VAVEEEPVNI PLEVLGQKFY FTAVSMGNPH AVIFVDSLAK IELEKYGPLI ETHPLFPRKT NVEFVEILSP AKVKVFVWER GAGATLACGT GASAVVVAGR ILGHLQEDVE VVLPGGSLFI NWVFGESVYM TGPAEIVFKG EYFL
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	30,267 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 Q3AC09
Species	Carboxydothermus hydrogenoformans (strain Z-2901 / DSM 6008)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapF recombinant protein	MBS1281670 is a recombinant protein targeting dapF. Also known as Recombinant Carboxydothermus hydrogenoformans 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 #	499663666
NCBI Accession #	WP_011344400.1
UniProt Primary Accession #	Q3AC09
GenBank Nucleotide #	WP_011344400.1

NCBI Official Full Name	diaminopimelate epimerase
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
UniProt Comments for dapF	Catalyzes the stereoinversion of LL-2,6-diaminoheptanedioate (L,L-DAP) to meso-diaminoheptanedioate (meso-DAP), a precursor of L-lysine and an essential component of the bacterial peptidoglycan.
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