Diaminopimelate Epimerase (dapF) Mycobacterium Leprae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Diaminopimelate epimerase (dapF), Recombinant Protein
Full Product Name	Recombinant Mycobacterium leprae Diaminopimelate epimerase (dapF)
Product Gene Name	dapF recombinant protein
Sequence	MIFAKGHGTQ NDFVVLPDVE ADVTFTAAQV AALCNRRQGL GADGVLRVTT AGAAVTAGVL EHLPDGVSCS DWYMDYRNAD GSVAQMCGNG VRVFAHYLRA SGLESCDEFV VGSLAGPRLV NVHHVDELNA DVTVDMGKAN LLGSGGPAFA VTVGGRRFSG VAVDVGNPHL ACMDPQLSLE ELAALDLGAP VHLDRVQFPD GVNIEVLTAP VDGMVQMRVH ERGVGETRSC GTGTVAAAVA ALASAGADTG TLTVRVPGGD VVITITDVTS YLRGPSVLVA HGELADAWWY SLARSC
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	30,640 Da
Sequence Positions	1-296, 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 B8ZQU1
Species	Mycobacterium leprae (strain Br4923)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapF recombinant protein	MBS1222761 is a recombinant protein targeting dapF. Also known as Recombinant Mycobacterium leprae 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 #	499210522
NCBI GeneID	910020
NCBI Accession #	WP_010908062.1
UniProt Primary Accession #	B8ZQU1
UniProt Related Accession #	P46814; CAC31377
GenBank Nucleotide #	WP_010908062.1

NCBI Official Full Name	diaminopimelate epimerase
NCBI Official Symbol	dapF
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	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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