LL-Diaminopimelate Aminotransferase (dapL) Chlamydia Trachomatis Serovar L2 Recombinant Protein

PRODUCT OVERVIEW

Product Name	LL-diaminopimelate aminotransferase (dapL), Recombinant Protein
Full Product Name	Recombinant Chlamydia trachomatis serovar L2 LL-diaminopimelate aminotransferase (dapL)
Product Gene Name	dapL recombinant protein
Sequence	MKRNPHFVSL TKNYLFADLQ KRVAQFRLEN PQHTVINLSI GDTTQPLNAS VAEAFASSIA RLSSPTTCRG YGPDFGLPAL RQKLSEDFYR GCVDAKEIFI SDGAKADLFR LLSFFGPNQT VAIQDPSYPA YLDIARLTGA KEIIALPCLQ ENAFFPEFPE DTHIDILCLC SPNNPTGTVL NKDQLRAIVH YAIEHEILIL FDAAYSTFIS DPSLPKSIFE IPDARFCAIE INSFSKPLGF AGIRLGWTVI PQELTYADGH FVIQDWERFL STTFNGASIP AQEAGVAGLS ILPQLEAIHY YRENSDLLRK ALLATGFEVF GGEHAPYLWV KPTQANISDR DLFDFFLREY HIAITPGIGF GRSGSGFVRF SSLGKREDIL AACERLQMAP ALQS
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	43,769 Da
Sequence Positions	1-394, 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 B0B7W0
Species	Chlamydia trachomatis serovar L2 (strain 434/Bu / VR-902B)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapL recombinant protein	MBS1215509 is a recombinant protein targeting dapL. Also known as Recombinant Chlamydia trachomatis serovar L2 LL-diaminopimelate aminotransferase (dapL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dapL 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 dapL. It may not necessarily be applicable to this product.

NCBI GI #	497559593
NCBI Accession #	WP_009873777.1
UniProt Primary Accession #	B0B7W0
GenBank Nucleotide #	WP_009873777.1

NCBI Official Full Name	LL-diaminopimelate aminotransferase
UniProt Protein Name	LL-diaminopimelate aminotransferase
Protein Family	LL-diaminopimelate aminotransferase
UniProt Gene Name	dapL
UniProt Synonym Gene Names	DAP-AT; DAP-aminotransferase; LL-DAP-aminotransferase
UniProt Comments for dapL	Involved in the synthesis of meso-diaminopimelate (m-DAP or DL-DAP), required for both lysine and peptidoglycan biosynthesis. Catalyzes the direct conversion of tetrahydrodipicolinate to LL-diaminopimelate.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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