Succinyl-Diaminopimelate Desuccinylase (dapE) Xanthobacter Autotrophicus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Succinyl-diaminopimelate desuccinylase (dapE), Recombinant Protein
Full Product Name	Recombinant Xanthobacter autotrophicus Succinyl-diaminopimelate desuccinylase (dapE)
Product Gene Name	dapE recombinant protein
Sequence	MALAAELIRA PSVTPHADDA LELVAKRLEA AGYRVERLTF ETGGVPIPNL YARIGTDGPN LCFAGHVDVV PEGDATQWHH APFAGTVEDG VLHGRGAVDM KGAVAAFLAA ALAFGRPQRG SLSFLITGDE EGPALDGTVK VVEWLKARGE TIDHCVLGEP TNPDALGDAF KVGRRGSLSG ILTVKGVQGH VAYPHLADNP IPRLLKLIGD LTAAPLDHGS DFFPPSNLEV VSVDVGNPVF NLIPAQATAR FNVRFNDLFS LESLKSEIIR RLDGAGLTYD LAFQTGASQS FLTAPGPFTD LVASAVEEVT GRRPEPSTSG GTSDARFIKD ICPVVEFGLV GRTMHKVDEA TPVKDIEALT AIYGRIIARY FSTFA
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	39,788 Da
Sequence Positions	1-375, 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 A7IH44
Species	Xanthobacter autotrophicus (strain BAA-1158 / Py2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapE recombinant protein	MBS1259436 is a recombinant protein targeting dapE. Also known as Recombinant Xanthobacter autotrophicus Succinyl-diaminopimelate desuccinylase (dapE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dapE 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 dapE. It may not necessarily be applicable to this product.

NCBI GI #	238055320
NCBI Accession #	A7IH44.2
UniProt Primary Accession #	A7IH44
NCBI Official Full Name	Succinyl-diaminopimelate desuccinylase

UniProt Protein Name	Succinyl-diaminopimelate desuccinylase
UniProt Synonym Protein Names	N-succinyl-LL-2,6-diaminoheptanedioate amidohydrolase
Protein Family	Probable succinyl-diaminopimelate desuccinylase
UniProt Gene Name	dapE
UniProt Synonym Gene Names	SDAP desuccinylase
UniProt Comments for dapE	Catalyzes the hydrolysis of N-succinyl-L,L-diaminopimelic acid (SDAP), forming succinate and LL-2,6-diaminoheptanedioate (DAP), an intermediate involved in the bacterial biosynthesis of lysine and meso-diaminopimelic acid, an essential component of bacterial cell walls.
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