# Succinyl-Diaminopimelate Desuccinylase (dapE) Rhizobium Etli Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Succinyl-diaminopimelate desuccinylase (dapE), Recombinant Protein |
| **Full Product Name** | Recombinant Rhizobium etli Succinyl-diaminopimelate desuccinylase (dapE) |
| **Product Gene Name** | dapE recombinant protein |
| **Product Synonym Gene Name** | dapE |
| **Sequence** | MTATDPVANL QTLIRCPSVT PAEGGALTAL DAMLTPLGFT VDRVTAREEG TAAIENLYAR LGRDGPHLMF AGHTDVVPVG DEAAWTHPPF AAEISNGELF GRGAVDMKGG IACFVAAVAR HIEKSGPPAG SISFLVTGDE EGPAINGTIK LLQWAAERGE RWDACLVGEP TNPDRLGDMI KIGRRGSLSG KITVHGVQGH AAYPHLADNP VRGLLQLTQA LMDPPFDGGT DDFQPSNLEV TTVDVGNPAT NVIPAKASAS FNIRFNDSWT VETLRAEILR RLEAAAGNGQ LRPGRPPAKY DIVWADRPSH VFLTRNNALI ASLSSAIESV AGRSPALSTT GGTSDARFIK DYCPVVEFGL VGQTMHMVDE RVAVADLETL TAIYQTFIDR WFAHAGS |
| **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** | 42,213 Da |
| **Sequence Positions** | 1-397, 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 Q2KD47 |
| **Species** | Rhizobium etli (strain CFN 42 / 51251) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for dapE recombinant protein** | MBS1385841 is a recombinant protein targeting dapE. Also known as Recombinant Rhizobium etli 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.

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| **NCBI GI #** | 754753250 |
| **NCBI Accession #** | WP_042117802.1 |
| **UniProt Primary Accession #** | Q2KD47 |
| **GenBank Nucleotide #** | WP_042117802.1 |

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| **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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