2,3,4,5-Tetrahydropyridine-2,6-Dicarboxylate N-Succinyltransferase (dapD) Bifidobacterium Longum Recombinant Protein

PRODUCT OVERVIEW

Product Name	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (dapD), Recombinant Protein
Full Product Name	Recombinant Bifidobacterium longum 2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (dapD)
Product Gene Name	dapD recombinant protein
Product Synonym Gene Name	dapD
Sequence	MSEERTAWGW GLASVDAAGT TLDVWYPELN LGEAPAESDR PNHNFGTLAH DEADARGIRR VPVFVVSQLD EPISNAADAY LKLHLMSMRM AKPNTLNLDG IFAQLANVVW TNYGPFAVED FTLRKADVER ASTEAALAFA SQAGLPAAAP AATVNVFGVD KFPRMIDYVV PTGVRLGDAD RVRLGAYLSS GTTVMHAGFV NFNAGTLGVS MVEGRVSQGV VVGDGSDIGG GASIMGTLSG GGKLRNSIGE HSLLGANAGI GISLGDNCTV EAGLYITAGT KITIWDKAKA AAGEPLEVVK GAELSGKDNI LFIRNSVNGR IEARYRKVGI ELNAKLHKN
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	35,670 Da
Sequence Positions	1-339, 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 Q8G3M4
Species	Bifidobacterium longum (strain NCC 2705)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapD recombinant protein	MBS1380227 is a recombinant protein targeting dapD. Also known as Recombinant Bifidobacterium longum 2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase (dapD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dapD 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 dapD. It may not necessarily be applicable to this product.

NCBI GI #	23466279
NCBI GeneID	1021991
NCBI Accession #	NP_696882.1

UniProt Primary Accession #	Q8G3M4
UniProt Related Accession #	Q8G3M4
GenBank Nucleotide #	NC_004307.2
NCBI Official Full Name	hypothetical protein BL1734
NCBI Official Symbol	BL1734
UniProt Protein Name	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase
UniProt Synonym Protein Names	Tetrahydrodipicolinate N-succinyltransferase
Protein Family	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase
UniProt Gene Name	dapD
UniProt Synonym Gene Names	THDP succinyltransferase; THP succinyltransferase
NCBI Protein Information	2,3,4,5-tetrahydropyridine-2,6-dicarboxylate N-succinyltransferase
UniProt Comments for dapD	Catalyzes the conversion of the cyclic tetrahydrodipicolinate (THDP) into the acyclic N-succinyl-L-2-amino-6-oxopimelate using succinyl-CoA.
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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