Dihydrodipicolinate Synthase (dapA) Lactobacillus Reuteri Recombinant Protein

PRODUCT OVERVIEW

Product Name	Dihydrodipicolinate synthase (dapA), Recombinant Protein
Full Product Name	Recombinant Lactobacillus reuteri Dihydrodipicolinate synthase (dapA)
Product Gene Name	dapA recombinant protein
Sequence	MTLLQNADLM TAIVTPFDDE ENIDYGRLEY LTNYLIEHGS NGFVIGGTTG ETPELTHDEK IELYQHFGEI VNGRVPVIAG TGSNNTKETI AFTNEVAQIN GIDYALVVVP PYNKPNQRGM VAHFTAVADS VDLPIIIYNI PGRTGVKMAQ ETVVELSHHQ NIAAVKQCTS LEELEYIVEH RDPDFAVFTG EDAQALTARV LGANGVISVA SHTYVDQMRQ MYDSLYRGDY QTAGKLQRWL TPRMAALFMF PSPSPVKAVL NAQGFNVGSC RLPILPLNEE EKRKLETALS LPTNSLTAKN LPLNLGE
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	33,823 Da
Sequence Positions	1-307, 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 A5VJ58
Species	Lactobacillus reuteri (strain DSM 20016)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dapA recombinant protein	MBS1160756 is a recombinant protein targeting dapA. Also known as Recombinant Lactobacillus reuteri Dihydrodipicolinate synthase (dapA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dapA 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 dapA. It may not necessarily be applicable to this product.

NCBI GI #	489764359
NCBI GeneID	5189395
NCBI Accession #	WP_003668292.1
UniProt Primary Accession #	A5VJ58
UniProt Related Accession #	A5VJ58
GenBank Nucleotide #	WP_003668292.1

NCBI Official Full Name	4-hydroxy-tetrahydrodipicolinate synthase
NCBI Official Symbol	LREU_RS03330
UniProt Protein Name	4-hydroxy-tetrahydrodipicolinate synthase
Protein Family	4-hydroxy-tetrahydrodipicolinate synthase
UniProt Gene Name	dapA
UniProt Synonym Gene Names	HTPA synthase
NCBI Protein Information	4-hydroxy-tetrahydrodipicolinate synthase
UniProt Comments for dapA	Catalyzes the condensation of (S)-aspartate-beta-semialdehyde [(S)-ASA] and pyruvate to 4-hydroxy-tetrahydrodipicolinate (HTPA).
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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