Pyridoxal Biosynthesis Lyase Pdxs (pdxS) Bacillus Cereus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Pyridoxal biosynthesis lyase pdxS (pdxS), Recombinant Protein
Full Product Name	Recombinant Bacillus cereus Pyridoxal biosynthesis lyase pdxS (pdxS)
Product Gene Name	pdxS recombinant protein
Product Synonym Gene Name	pdxS
Sequence	MTNVTGTERV KRGMAEMQKG GVIMDVVNAE QAKIAEEAGA VAVMALERVP ADIRAAGGVS RMADPTIVEE VMGAVSIPVM AKCRIGHLVE ARVLESLGVD YIDESEVLTP ADEVYHLNKR DYTVPFVCGC RDIGEAARRI AEGASMLRTK GEPGTGNIVE AVRHMRQVNA EIRQVASLRE DELMTYAKNT GAPYEVLLEI KRLGRLPVVN FAAGGVATPA DAALMMQLGA DGVFVGSGIF KSENPEKFAR AIVEATTHYE DYELIASLSK GLGNAMKGVE ISTLLPEQRM QERGW
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	31,820 Da
Sequence Positions	1-295, Full length
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 Q81JC6
Species	Bacillus cereus (strain 14579 / DSM 31)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxS recombinant protein	MBS1464439 is a recombinant protein targeting pdxS. Also known as Recombinant Bacillus cereus Pyridoxal biosynthesis lyase pdxS (pdxS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pdxS 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 pdxS. It may not necessarily be applicable to this product.

NCBI GI #	30018288
NCBI GeneID	1202368
NCBI Accession #	NP_829919.1
UniProt Primary Accession #	Q81JC6
GenBank Nucleotide #	NC_004722.1

NCBI Official Full Name	pyridoxal biosynthesis lyase PdxS
NCBI Official Symbol	BC0015
UniProt Protein Name	Pyridoxal 5'-phosphate synthase subunit PdxS
UniProt Synonym Protein Names	Pdx1
Protein Family	Pyridoxal 5'-phosphate synthase
UniProt Gene Name	pdxS
UniProt Synonym Gene Names	PLP synthase subunit PdxS
NCBI Protein Information	pyridoxal biosynthesis lyase PdxS
UniProt Comments for pdxS	Catalyzes the formation of pyridoxal 5'-phosphate from ribose 5-phosphate (RBP), glyceraldehyde 3-phosphate (G3P) and ammonia. The ammonia is provided by the PdxT subunit. Can also use ribulose 5-phosphate and dihydroxyacetone phosphate as substrates, resulting from enzyme-catalyzed isomerization of RBP and G3P, respectively.
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