4-Hydroxythreonine-4-Phosphate Dehydrogenase (pdxA) Synechocystis Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxythreonine-4-phosphate dehydrogenase (pdxA), Recombinant Protein
Full Product Name	Recombinant Synechocystis sp. 4-hydroxythreonine-4-phosphate dehydrogenase (pdxA)
Product Gene Name	pdxA recombinant protein
Product Synonym Gene Name	pdxA
Sequence	MDCMSLPRLI LTLGDPAGIG PEVVLKALAE PGLASICQLT AIGSRSVLDQ TRRQLLAQNP GLNLADPETI NLLEVDLSYL GKITVGQGDA VSGAISFAYL NEAITRTLAG EFDAIVTAPI AKSAWQAAGH NYPGQTEVLA HRAGVESFAM AFVGRSPFTG WTLRTLLATT HIPLKEVPQA LTPQLMTAKL ELLLTCLAQD FGISNPSVAI AGLNPHSGEE GKLGSEEQDW LIPWLEQARK KYPQAQLIGP IPPDTMWVGP GKAWLTDGQT TVSDAYLALY HDQGLIPVKL LAFDQAINTT IGLPFVRTSP DHGTAFDIAG QGIARADSLI AAIKLAAELV EQRCRPRAQ
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	37,225 Da
Sequence Positions	1-349, 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 Q55982
Species	Synechocystis sp. (strain PCC 6803 / Kazusa)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxA recombinant protein	MBS1408890 is a recombinant protein targeting pdxA. Also known as Recombinant Synechocystis sp. 4-hydroxythreonine-4-phosphate dehydrogenase (pdxA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pdxA 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 pdxA. It may not necessarily be applicable to this product.

NCBI GI #	20138970
NCBI Accession #	Q55982.1
UniProt Primary Accession #	Q55982
NCBI Official Full Name	4-hydroxythreonine-4-phosphate dehydrogenase

UniProt Protein Name	4-hydroxythreonine-4-phosphate dehydrogenase
UniProt Synonym Protein Names	4-(phosphohydroxy)-L-threonine dehydrogenase
Protein Family	4-hydroxythreonine-4-phosphate dehydrogenase
UniProt Gene Name	pdxA
UniProt Comments for pdxA	Catalyzes the NAD(P)-dependent oxidation of 4-(phosphohydroxy)-L-threonine (HTP) into 2-amino-3-oxo-4-(phosphohydroxy)butyric acid which spontaneously decarboxylates to form 3-amino-2-oxopropyl phosphate (AHAP).
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