4-Hydroxythreonine-4-Phosphate Dehydrogenase (pdxA) Brucella Suis Biovar 1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	4-hydroxythreonine-4-phosphate dehydrogenase (pdxA), Recombinant Protein
Full Product Name	Recombinant Brucella suis biovar 1 4-hydroxythreonine-4-phosphate dehydrogenase (pdxA)
Product Gene Name	pdxA recombinant protein
Sequence	MRAKPLPPLA VSIGDPSGIG ADVALAAWLK RCELSLPPFF LIADPKQLAA RARHLGLAVD FAILSDPREA EAAFGERLPL LALKHSHTES PGKPLTENAA GVIEAIERAV ELTLKGEAAA VVTCPIAKKP LYEAGFQHPG HTEFLAELAG HHLGKPVTPV MMLAGPQLRA VPVTIHIPLS EVPARLTTTE IVAVSRITAN ELRERFGIAS PRLAISGLNP HAGEGGALGK EDDAIILPAI EQLIREGIDA RGPLPADTMF HAPARATYDA AICMYHDQAL IPAKALAFDE TVNVTLGLPF IRTSPDHGTA FDIAGKGIAR PDSLVAAMRL AQQLAENAAS RNA
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	36,193 Da
Sequence Positions	1-343, 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 P65681
Species	Brucella suis biovar 1 (strain 1330)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pdxA recombinant protein	MBS1237668 is a recombinant protein targeting pdxA. Also known as Recombinant Brucella suis biovar 1 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 #	490821332
NCBI Accession #	WP_004683429.1
UniProt Primary Accession #	P65681
UniProt Secondary Accession #	P58712; G0K824
GenBank Nucleotide #	WP_004683429.1

NCBI Official Full Name	MULTISPECIES: 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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