

Probable pyridoxal biosynthesis protein PDX1.1 (PDX11), Recombinant Protein

Cat RP12315

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Probable pyridoxal biosynthesis protein PDX1.1 (PDX11)

Product Gene Name

PDX11 recombinant protein

Product Synonym Gene Name

PDX11

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MATDGTGVVT VYGSNGTNGAA LLEPSNHKSA TFSVKVGLAQ MLRGGVIMDV VTPEQARIAE EAGACAVMAL
ERVPADIRAQ GGVARMSDPG LIRDIKRAVT IPVMAKARIG HFVEAQILEA IGVDYVDESE VLTLDADAHH
INKHNFRVPF VCGCRDLGEA LRRIREGAAM IRTKGEAGTG NVVEAVRHVR SVMGDIRALR NMDDDEVFSY
AKRIAAPYDL VMQTKQLGRL PVVQFAAGGV ATPADAALMM QLGCDGVFVG SGIFKSGDPA RRARAIVQAV
THYSDPKILA EVSSGLGEAM VGINLSDPKV ERFAARSE

Sequence Positions

1-318, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

33,737 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Pyridoxal 5'-phosphate synthase

NCBI Accession

XP_015646521.1

NCBI GI

1002284406

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GeneID
4342162

NCBI Official Full Name

probable pyridoxal 5'-phosphate synthase subunit PDX1.1

NCBI Official Symbol

LOC4342162

NCBI Official Synonym Symbols

PDX11; B1026C12.3

NCBI Protein Information

probable pyridoxal 5'-phosphate synthase subunit PDX1.1

UniProt Gene Name

PDX11

UniProt Synonym Gene Names

PLP synthase subunit PDX1.1

UniProt Protein Name

Probable pyridoxal 5'-phosphate synthase subunit PDX1.1

UniProt Primary Accession

Q69LA6

UniProt Secondary Accession

B7E5L2

UniProt Related Accession

Q69LA6

UniProt Comments

Catalyzes the formation of pyridoxal 5'-phosphate from ribose 5-phosphate (RBP), glyceraldehyde 3-phosphate (G3P) and ammonia. The ammonia is provided by PDX2. Can also use ribulose 5-phosphate and dihydroxyacetone phosphate as substrates, resulting from enzyme-catalyzed isomerization of RBP and G3P, respectively. Also plays an indirect role in resistance to singlet oxygen-generating photosensitizers.

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