

Recombinant Human PDXP, His-tagged

Cat. No. PDXP-2762H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PDXP protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E.coli</i>
Description	Pyridoxal phosphate phosphatase, also known as PDXP is the enzyme belongs to the family of hydrolases, specifically those acting on phosphoric monoester bonds. PDXP catalyzes the dephosphorylation of pyridoxal 5"-phosphate and exhibits a high level of expression various parts of the central nervous system, especially the brain. PDXP activity is catalyzed by haloacid dehalogenase (HAD), and it is the cofactor of both aromatic L-amino acid decarboxylase and glutamate decarboxylase.
Purity	> 95% by SDS – PAGE.
Sequences	MGSSHHHHHH SSGLVPRGSH MARCERLRGA ALRDVLGRAQ GVLFD CDGVL WNGERAVPGA PELLERLARA GKAALFVSNN SRRARPELAL RFARLGFGGL RAEQLFSSAL CAARLLRQRL PGPPDAPGAV FVLGG EGLRA ELRAAGLRLA GDPSAGDGAA PRVRAVLVGY DEHFSFAKLR EACAHLRDPE CLLVATDRDP WHPLSDGSRT PGTGSLAAAV ETASGRQALV VGKPSPYMFE CITENFSIDP ARTLMVGDRL ETDILFGHRC GMTTVLTLTG VSRLEEAQAY LAAGQHDLVP HYYVESIADL TEGLED.
Molecular Weight	33.8 kDa (316aa) confirmed by MALDI-TOF.

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,20% glycerol, 0.1M NaCl.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	PDXP pyridoxal (pyridoxine, vitamin B6) phosphatase [Homo sapiens]
Synonyms	PDXP; pyridoxal (pyridoxine, vitamin B6) phosphatase; PLP phosphatase; chronophin; pyridoxal phosphate phosphatase; CIN; PLP; FLJ32703; dJ37E16.5; EC 3.1.3.74
Gene ID	57026
mRNA Refseq	NM_020315
Protein Refseq	NP_064711
MIM	609246
UniProt ID	Q96GD0
Chromosome Location	22cen-q12.3
Pathway	Metabolic pathways; Vitamin B6 metabolism

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Function

heat shock protein binding; hydrolase activity; metal ion binding; phosphoprotein phosphatase activity; pyridoxal phosphatase activity

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