

PDXP Protein, Human, Recombinant (His)

General Information

Synonyms:	Pyridoxal phosphate phosphatase (PLP phosphatase);PLP;PDXP;PLPP;CIN;Chronophin
Protein Construction:	1-296 aa
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q96GD0
Molecular Weight:	33.7 kDa (predicted)
AA Sequence:	MARCERLRGAALRDVLGRAQGVLFDCDGVLWNGERAVPGAPELLERLARAGKAALFVSNNRRARPELALR FARLGFGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGELRAELRAAGLRLAGDPSAGDGAAPRV RAVLVGYDEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGSLAAAVETASGRQALVVGKPS PYMFECITENFSIDPARTLMVGDRLLETDLFGHRCGMMTVLTLTGVSRLAEAQAYLAAGQHDLVPHYYVESIAD LTEGLED

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Functions as a pyridoxal phosphate (PLP) phosphatase, which also catalyzes the dephosphorylation of pyridoxine 5'-phosphate (PNP) and pyridoxamine 5'-phosphate (PMP), with order of substrate preference PLP > PNP > PMP and therefore plays a role in vitamin B6 metabolism. Also functions as a protein serine phosphatase that

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specifically dephosphorylates 'Ser-3' in proteins of the actin-depolymerizing factor (ADF)/cofilin family like CFL1 and DSTN. Thereby, regulates cofilin-dependent actin cytoskeleton reorganization, being required for normal progress through mitosis and normal cytokinesis. Does not dephosphorylate phosphothreonines in LIMK1. Does not dephosphorylate peptides containing phosphotyrosine.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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