

## PDXP Human

**Description:** PDXP Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 316 amino acids (1-296 a.a.) and having a molecular mass of 33.8 kDa. The PDXP is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: ENPS-558

For research use only.

**Synonyms:** CIN, PLP, PLPP, EC 3.1.3.74.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SGLVPRGSH MARCERLRGA ALRDVLGRAQ  
GVLFDGCVL WNGERAVPGA PELLERLARA GKAALFVSNN SRRARPELAL RFARLGFGL  
RAEQLFSSAL CAARLLRQRL PGPPDAPGAV FVLGGELRA ELRAAGRLA GDPSAGDGAA  
PRVRAVLVGY DEHFSFAKLR EACAHLRDP CLLVATDRDP WHPLSDGSRT PGTGSLAAAV  
ETASGRQALV VG

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

1mg/ml solution containing 20mM Tris pH-8, 1mM DTT, 0.1M NaCl & 20% glycerol.

**Stability:**

PDXP Human although stable at 4C for 1 week, should be stored desiccated below -18C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

PDXP is the active form of vitamin B6 that functions as a coenzyme in preserving biochemical homeostasis. The desired degradation route from PLP to 4-pyridoxic acid involves the dephosphorylation of PLP by PDXP. PDXP shows activity to pyridoxal 5"-phosphate (PLP), pyridoxine 5"-phosphate (PMP) and Pyridoxine 5"-phosphate (PNP), with a highest activity with PLP followed by PNP.

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