

## PNPO Human

**Description:** PNPO Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 226 amino acids (57-261 a.a.) and having a molecular mass of 25.9kDa. The PNPO is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-037

For research use only.

**Synonyms:** Pyridoxine-5'-phosphate oxidase, Pyridoxamine-phosphate oxidase, PNPO, PDXPO, FLJ10535.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MDPVKQFAAW FEEAVQCPDI  
GEANAMCLAT CTRDGKPSAR MLLKGFSGKD GFRFFTNFES RKGKELDSNP FASLVFYWEP  
LNRQVRVEGP VKKLPEEEAE CYFHSRPKSS QIGAVVSHQS SVIPDREYLR KKNEELEQLY  
QDQEVPKPKS WGGYVLYPQV MEFWQGQTNR LHDRIVFRRG LPTGDSPLGP MTHRGEEEDWL  
YERLAP.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

### Formulation:

The PNPO solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 0.1mM PMSF.

### Stability:

HSD17B14 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). 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:

Pyridoxine-5'-phosphate oxidase (PNPO) is the rate-limiting enzyme in vitamin B6 synthesis. Vitamin B6 (Pyridoxal 5-prime-phosphate or PLP) is vital for normal cellular function, and some cancer cells have notable differences in vitamin B6 metabolism compared to their normal counterparts. Vitamin B6 is an essential co-factor for enzymes involved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamine. Mutations in the PNPO gene result in PNPO deficiency, a form of neonatal epileptic encephalopathy.

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