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# **Recombinant human PNPO protein**

Catalog Number: ATGP0801

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

57-261aa

#### UniProt No.

O9NVS9

#### **NCBI Accession No.**

NP 060599

#### **Alternative Names**

Pyridoxine-5'-phosphate oxidase, Pyridoxine-5'-phosphate oxidase, FLI10535, PDXPO

### PRODUCT SPECIFICATION

#### **Molecular Weight**

25.9 kDa (226aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,0.1mM PMSF

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

PNPO, also known as pyridoxine-5'-phosphate oxidase, is the rate-limiting enzyme in vitamin B6 synthesis. Vitamin B6, or pyridoxal 5-prime-phosphate (PLP), is critical for normal cellular function, and some cancer cells have notable differences in vitamin B6 metabolism compared to their normal counterparts. Recombinant human PNPO protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography



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# **Amino acid Sequence**

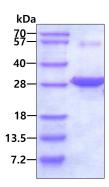
<MGSSHHHHHH SSGLVPRGSH M>DPVKQFAAW FEEAVQCPDI GEANAMCLAT CTRDGKPSAR MLLLKGFGKD GFRFFTNFES RKGKELDSNP FASLVFYWEP LNRQVRVEGP VKKLPEEEAE CYFHSRPKSS QIGAVVSHQS SVIPDREYLR KKNEELEQLY QDQEVPKPKS WGGYVLYPQV MEFWQGQTNR LHDRIVFRRG LPTGDSPLGP MTHRGEEDWL YERLAP

#### **General References**

Ngo EO., et al. (1998), Biochemistry., 37(21):7741-8 Kang JH., et al. (2004). Eur J Biochem., 271(12):2452-61

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

