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## Product Data Sheet

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Product Name: PNPO Human  
 Cat. No.: GP22108  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyridoxine-5'-phosphate oxidase; Pyridoxamine-phosphate oxidase; PNPO; PDXPO; FLJ10535.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MDPVKQFAAW FEEAVQCPDI GEANAMCLAT CTRDGKPSAR MLLLKGFGKD GFRFFTNFES RKGKELDSNP FASLVFYWEP LNRQVRVEGP VKKLPEEEAE CYFHSRPKSS QIGAVVSHQS SVIPDREYLR KKNEELEQLY QDQEVPKPKS WGGYVLYPQV MEFWQGQTNR LHDRIVFRRG LPTGDSPLGP MTHRGEEDWL YERLAP.		
Formulation	The PNPO solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 0.1mM PMSF.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PNPO Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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