

Recombinant Human Pyridoxamine 5 -phosphate Oxidase, His-tagged

Cat. No. PNPO-2868H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PNPO protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. MW = 25.9 kDa (226aa) confirmed by MALDI-TOF (molecular size on SDS-PAGE will appear higher).
Species	Human
Source	E.coli
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.
Sequences Of Amino Acids	MGSSHHHHH SSGLVPRGSH MDPVKQFAAW FEEAVQCPDI GEANAMCLAT CTRDGKPSAR MLLKGFSGKD GFRFFTNFES RKGKELDSNP FASLVFYWEP LNRQVRVEGP VKKLPEEEAE CYFHSRPKSS QIGAVVSHQS SVIPDREYLR KKNEELEQLY QDQEVKPKS WGGYVLYPQV MEFWQGQTNR LHDRIVFRRG LPTGDSPLGP MTHRGEEDWL YERLAP
Purity	> 90% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl, 0.1mM PMSF.

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Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	PNPO pyridoxamine 5"-phosphate oxidase [Homo sapiens]
Synonyms	PNPO; pyridoxamine 5"-phosphate oxidase; PDXPO; FLJ10535; pyridoxine-5"-phosphate oxidase; pyridoxamine-phosphate oxidase; pyridoxal 5"-phosphate synthase; pyridoxine 5"-phosphate oxidase; EC 1.4.3.5
Gene ID	55163
mRNA Refseq	NM_018129
Protein Refseq	NP_060599
MIM	603287
UniProt ID	Q9NVS9
Chromosome Location	17q21.32
Pathway	Metabolic pathways; Vitamin B6 metabolism
Function	FMN binding; oxidoreductase activity, acting on the CH-NH2 group of donors; pyridoxamine-phosphate oxidase activity

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