

Recombinant Human PNPO, His-tagged

Cat. No. PNPO-27512TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 57-261 of Human PNPO with an N terminal His tag; 226 amino acids with tag, Predicted MWt 25.9 kDa.
Species	Human
Source	E.coli
ProteinLength	205 amino acids
Description	The enzyme encoded by this gene catalyzes the terminal, rate-limiting step in the synthesis of pyridoxal 5-phosphate, also known as vitamin B6. Vitamin B6 is a required co-factor for enzymes involved in both homocysteine metabolism and synthesis of neurotransmitters such as catecholamine. Mutations in this gene result in pyridoxamine 5-phosphate oxidase (PNPO) deficiency, a form of neonatal epileptic encephalopathy.
Conjugation	HIS
Molecular Weight	25.900kDa inclusive of tags
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris

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	HCl, 0.1mM PMSF, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMDPVKQFAAWFEEAVQCPDIGEANAMCLATCTRD GKPSARMLLLKGFGKDGFRFFTNFESRKGKELDSNPFASLVFYWEPLNRQVRVEGP VKKLPEEEAECEYFHSRPKSSQIGAVVSHQSSVIPDREYLRKKNEELEQLYQDQEVPK PKSWG GYVLYPQVMEFWQGQTNR LHDRIVFRRGLPTGDSPLGPMTHRGEEDWL Y ERLAP
Sequence Similarities	Belongs to the pyridoxamine 5-phosphate oxidase family.

GENE INFORMATION

Gene Name	PNPO pyridoxamine 5-phosphate oxidase [Homo sapiens]
Official Symbol	PNPO
Synonyms	PNPO; pyridoxamine 5-phosphate oxidase; pyridoxine 5 phosphate oxidase; pyridoxine-5-phosphate oxidase; PDXPO;
Gene ID	55163
mRNA Refseq	NM_018129
Protein Refseq	NP_060599
MIM	603287

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Uniprot ID	Q9NVS9
Chromosome Location	17q21.32
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Selenium Pathway, organism-specific biosystem;
Function	FMN binding; oxidoreductase activity, acting on the CH-NH2 group of donors; pyridoxamine-phosphate oxidase activity;

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