

## Product datasheet for **TP300133M**

### PNPO (NM\_018129) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human pyridoxamine 5'-phosphate oxidase (PNPO), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC200133 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MTCWLRGVTATFGRPAEWPGYLSHLCGRSAAMD LGPMRKS YRGDREA FEETHLTS LDPVKQFAAWFEEAV  
QCPDIGEANAMCLATCTRDGKPSARMLLLKGF GKDGFRFFTNFESRKGKELDSNPFASLVFYWEPLNRQV  
RVEGPVKKLP EEEAECYFHSR PKSSQIGAVVSHQSSVIPDREYLRKKNEELEQLYQDQVEPKPKSWG GYV  
LYPQVMEFWQ GQTNRLHDRIVFRRGLPTGDSPLGPMTHRGEEDWLYERLAP

**TR**TRPLE**Q**KLISEEDLAANDILDYKDDDDK**V**

**Tag:** C-Myc/DDK

**Predicted MW:** 29.8 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_060599](#)

**Locus ID:** 55163

**UniProt ID:** [Q9NVS9](#), [V9HW45](#)



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RefSeq Size: 3482

Cytogenetics: 17q21.32

RefSeq ORF: 783

Synonyms: HEL-S-302; PDXPO

**Summary:** 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. [provided by RefSeq, Oct 2008]

**Protein Pathways:** Metabolic pathways, Vitamin B6 metabolism

### Product images:



Coomassie blue staining of purified PNPO protein (Cat# [TP300133]). The protein was produced from HEK293T cells transfected with PNPO cDNA clone (Cat# [RC200133]) using MegaTran 2.0 (Cat# [TT210002]).