

## Recombinant Human PNPO Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PNPO-6695H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | PNPO MS Standard C13 and N15-labeled recombinant protein (NP_060599) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MTCWLRGVTATFGRPAEWPGYLSHLCGRSAAMD LGPMRKS YRGDREAFEETHLT<br>SLDPVKQFAAWFEEAVQCPDIGEANAMCLATCTRDGKPSARMLLLKGF GKDGFRFF<br>TNFESRK GKELDSNPFASLVFYWEPLNRQVRVEGPVKKLP EEEAECYFHSRPKSSQ<br>IGAVVSHQSSVIPDREYLRKKNEELEQLYQDQEV PKPKSWGGYVLYPQVMEFWQG<br>QTNRLHDRV FRRGLPTGDSPLGPMTHRGEEDWLYERLAPTRTRPLEQKLISEEDLA<br>ANDILDYKDDDDKV                                                                                                        |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

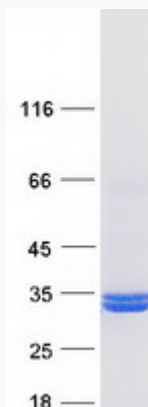
## GENE INFORMATION

|                        |                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PNPO pyridoxamine 5-phosphate oxidase [ Homo sapiens (human) ]                                                                                                                                                           |
| <b>Official Symbol</b> | PNPO                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | PNPO; pyridoxamine 5-phosphate oxidase; pyridoxine 5 phosphate oxidase; pyridoxine-5-phosphate oxidase; PDXPO; pyridoxamine-phosphate oxidase; pyridoxal 5-phosphate synthase; pyridoxine 5-phosphate oxidase; FLJ10535; |
| <b>Gene ID</b>         | 55163                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_018129                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_060599                                                                                                                                                                                                                |
| <b>MIM</b>             | 603287                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | Q9NVS9                                                                                                                                                                                                                   |

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**SDS-PAGE**

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