

PNPO, 57-261aa, Human, His tag, E.coli

Cat.NO.: TP03448

3th Edition

Synonyms:Pyridoxine-5'-phosphate oxidase, FLJ10535, PDXPO.

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. Recombinant human PNPO protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl,0.1mM PMSF

Molecular Weight:25.9 kDa (226aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMDPVKQFAAWFEEAVQCPDIGEANAMCLATCTRDGKPSARMLLLKGFQKDGFR
FFTNFESRKGKELDSNPFASLVFYWEPLNRQVRVEGPVKKLPAAAAECYFHSRPKSSQIGAVVSHQSSVIPDREYL
RKKNEELEQLYQDQEVKPKSWGGYVLYPQVMEFWQGQTNRLHDRVFRRLPTGDSPLGPMTHRGEEDWLYE
RLAP

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.