Recombinant human PNPO protein

Catalog Number: ATGP0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
57-261aa

UniProt No.
Q9NVS9

NCBI Accession No.
NP_060599

Alternative Names
Pyridoxine-5'-phosphate oxidase, Pyridoxine-5'-phosphate oxidase, FLJ10535, PDXPO

PRODUCT SPECIFICATION

Molecular Weight
25.9 kDa (226aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl,0.1mM PMSF

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
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Amino acid Sequence

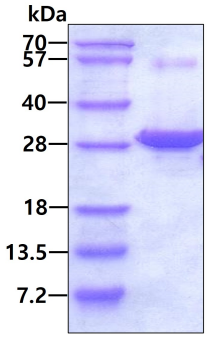
<MGSSHHHHHH SSGLVPRGSH M>DPVKQFAAW FEEAVQCPDI GEANAMCLAT CTRDGKPSAR MLLLKGFGKD GFRFFTNFES RKGKELDSNP FASLVFYWEP LNRQVRVEGP VKKLPEEEAE CYFHSRPKSS QIGAVVSHQS SVIPDREYLR KKNEELEQLY QDQEVPKPKS WGGYVLYPQV MEFWQGQTNR LHDRIVFRRG LPTGDSPLGP MTHRGEEDWL YERLAP

General References

Ngo EO., et al. (1998), Biochemistry., 37(21):7741-8
Kang JH., et al. (2004). Eur J Biochem., 271(12):2452-61

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.