

Recombinant human Pyridoxal Kinase/PDXK protein

Catalog Number: ATGP0777

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-312aa

UniProt No.

O00764

NCBI Accession No.

NP_003672

Alternative Names

Pyridoxal kinase, PKH, PNK, PRED79, Pyridoxine kinase

PRODUCT SPECIFICATION

Molecular Weight

37.6 kDa (336aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

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

PDXK converts vitamin B6 to pyridoxal-5-phosphate (PLP), an essential cofactor in the intermediate metabolism of amino acids and neurotransmitters. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. Recombinant human PDXK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Recombinant human Pyridoxal Kinase/PDXK protein

Catalog Number: ATGP0777

Amino acid Sequence

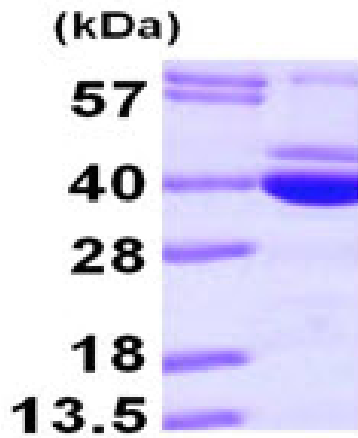
MGSSHHHHHH SSSLVPRGSH MGSHMEEECR VLSIQSHVIR GYVGNRAATF PLQVLGFEID AVNSVQFSNH TGYAHWKGQV
LNSDELQELY EGLRLNNMNK YDYVLTGYTR DKSFLAMVVD IVQELKQQNP RLVYVCDPVL GDKWDGEGSM YVPEDLLPVY
KEKVVPLADI ITPNQFEAEL LSGRKIHSQE EALRVMDMLH SMGPDTVIT SSDLPSPQGS NYLIVLGSQR RRNPAGSVVM
ERIRMDIRKV DAVFVGTGDL FAAMLLAWTH KHPNNLKVAC EKTVSTLHHV LQRTIQCAKA QAGEGVRPSP MQLELRMVQS
KRDIEDPEIV VQATVL

General References

Merrill AH Jr., et al. (1984) J Nutr. 114(9):1664-74.
Hanna M C., et al. (1997) J Biol Chem. 272(16):10756-60.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)