Recombinant human PDXP protein

Catalog Number: ATGP0652

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-296aa

UniProt No.
Q96GD0

NCBI Accession No.
NP_064711

Alternative Names
Pyridoxal phosphate phosphatase, CIN, PLP, PLPP, Pyridoxal phosphate phosphatase

PRODUCT SPECIFICATION

Molecular Weight
33.8 kDa (316aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

Purity
> 95% 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
Pyridoxal phosphate phosphatase, also known as PDXP is the enzyme belongs to the family of hydrolases, specifically those acting on phosphoric monoester bonds. PDXP catalyzes the dephosphorylation of pyridoxal 5'-phosphate and exhibits a high level of expression various parts of the central nervous system, especially the brain. PDXP activity is catalyzed by haloacid dehalogenase (HAD), and it is the cofactor of both aromatic L-amino acid decarboxylase and glutamate decarboxylase. Recombinant human PDXP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

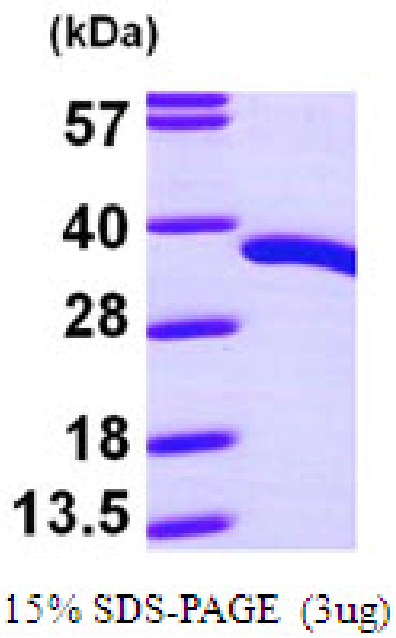
MGSSHHHHHH SSGLVPRGSH MARCERLRGA ALRDVLGRAQ GVLFDCDGVL WNGERAVPGA PELLERLARA GKAALFVSNN SRRARPELAL RFARLGFGGL RAEQLFSSAL CAARLLRQRL PGPPDAPGAV FVLGGEGLRA ELRAAGLRLA GDPSAGDGAA PRVRAVLVGY DEHFSFAKLR EACAHLRDPE CLLVATDRDP WHPLSDGSRT PGTGSLAAAV ETASGRQALV VGKPSPYMFE CITENFSIDP ARTLMVGDRL ETDILFGHRC GMTTVLTLTG VSRLEEAQAY LAAGQHDLVP HYYVESIADL TEGLED

General References

Jang YM., et al. (1992) J Biol Chem. 278(50):50040-6.
Fonda ML., et al. (1992) J Biol Chem. 267(22):15978-83.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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