

Recombinant human PHOSPHO2 protein

Catalog Number: ATGP1367

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-241aa

UniProt No.

Q8TCD6

NCBI Accession No.

NP_001008489

Alternative Names

Pyridoxal phosphate phosphatase PHOSPHO2, MGC111048, MGC22679, phosphatase orphan 2

PRODUCT SPECIFICATION

Molecular Weight

30.3 kDa (265aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity

> 85% 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 PHOSPHO2, orphan 2, also known as PHOSPHO2, belongs to the haloacid dehalogenase (HAD) superfamily. Phosphatase has a high activity toward phosphoethanolamine (PEA) and phosphocholine (PCho). PHOSPHO 1, a phosphoethanolamine/phosphocholine phosphatase, is upregulated in mineralising cells and is thought to be involved in the generation of inorganic phosphate for bone mineralization. PHOSPHO2 is a putative phosphatase sharing 42% sequence identity with PHOSPHO1. PHOSPHO1 and PHOSPHO2 are very similar, but surprisingly, recombinant PHOSPHO2 hydrolyses phosphoethanolamine and

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phosphocholine relatively poorly. Recombinant human PHOSPHO2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

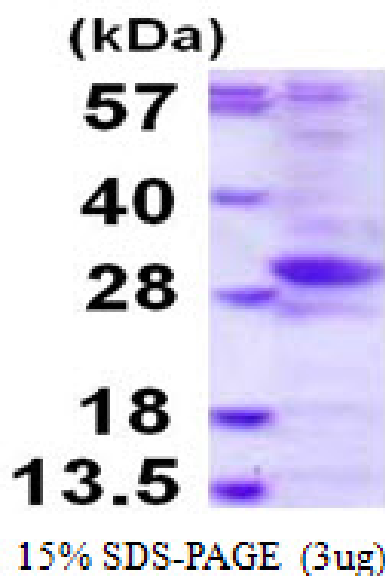
MGSSHHHHHH SSGLVPRGSH MGSHMKILLV FDFDNTIIDD NSDTWIVQCA PNKKLPIELR DSYRKGFWTE FMGRVFKYL
GDKGVREHEMK RAVTSLPFTP GMVELFNFIR KNKDKFDCII ISDSNSVFID WVLEAASFHD IFDKVFTNPA AFNSNGHLTV
ENYHTHSCNR CPKNLCKKV LIEFVDKQLQ QGVNYTQIVY IGDGGNDVCP VTFLKNDDVA MPRKGYTLQK TLRMSQNLE
PMEYSVVVWS SGVDIISHLQ FLIKD

General References

Roberts SJ., et al. (2005) Biochim Biophys Acta. 1752(1):73-82.
Stewart A J., et al. (2003) Protein Eng. 16(12):889-95.

DATA

SDS-PAGE



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