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AR50192PU-S Human PHOSPHO2 (1-241, His-tag) - Purified

Alternate names: Phosphatase orphan 2, Pyridoxal phosphate phosphatase PHOSPHO2

Quantity: 50 µg

Concentration: 0.25 mg/ml (determined by Bradford assay)

Background: 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 phosphocholine relatively poorly.

Uniprot ID: Q8TCD6

NCBI: NP_001008489

GeneID: 493911

Species: Human

Source: E. coli

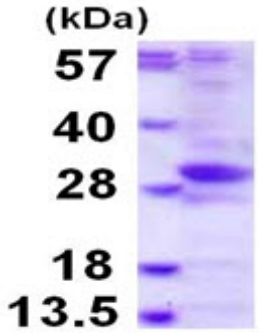
Format: **State:** Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Description: Recombinant human PHOSPHO2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSHMKILLV FDFDNTIIDD NSDTWIVQCA PNKKLPIELR DSYRKGFWTE FMGRVFKYLG DKGVREHEMK RAVTSLPFTP GMVELFNFIR KNKDKFDCII ISDSNSVFID WVLEAASFHD IFDKVFTNPA AFNSNGHLTV ENYHTHSCNR CPKNLCKKVV LIEFVDKQLQ QGVNYTQIVY IGDGGNDVCP VTFLKNDDVA MPRKGYTLQK TLSRMSQNLE PMEYSVVVWS SGVDIISHLQ FLIKD
Molecular weight: 30.3 kDa (265aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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

Pictures:



15% SDS-PAGE (3ug)