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32-2667: PHOSPHO2 Recombinant Protein

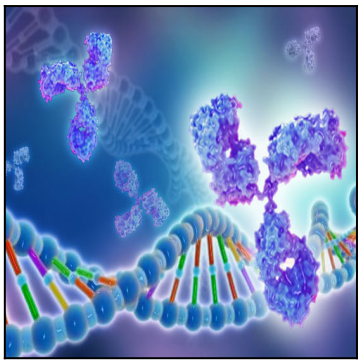
Alternative Name : Pyridoxal phosphate phosphatase PHOSPHO2,PHOSPHO2.

Description

Source : Escherichia Coli. PHOSPHO2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 265 amino acids (1-241) and having a molecular mass of 30.3kDa.PHOSPHO2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Pyridoxal phosphate phosphatase PHOSPHO2, orphan 2 (PHOSPHO2) is a member of the haloacid dehalogenase (HAD) superfamily. Phosphatase has an elevated activity toward phosphoethanolamine (PEA) and phosphocholine (PCho). PHOSPHO 1, a phosphoethanolamine/phosphocholine phosphatase, is upregulated in mineralizing cells and is believed to be implicated in the production of inorganic phosphate for bone mineralization. PHOSPHO2 is a recognized phosphatase sharing a 42% sequence identity with PHOSPHO1. PHOSPHO1 and PHOSPHO2 are especially similar, however surprisingly recombinant PHOSPHO2 hydrolyses phosphoethanolamine and phosphocholine comparatively inadequately.

Product Info

Amount :	10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	The PHOSPHO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	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.



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