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## Product Data Sheet

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Product Name: PHOSPHO2 Human  
 Cat. No.: GP22085  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Pyridoxal phosphate phosphatase PHOSPHO2; PHOSPHO2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMKILLV FDFDNTIIDD NSDTWIVQCA PNKKLPIELR DSYRKGFWTE FMGRVFKYLG DKGVREHEMK RAVTSLPFTP GMVELFNFIR KNKDKFDCII ISDSNSVFID WVLEAASFHD IFDKVFTNPA AFNSNGHLTV ENYHTHSCNR CPKNLCKKVV LIEVDKQLQ QGVNYTQIVY IGDGGNDVCP VTFLKNDDVA MPRKGYTLQK TLSRMSQNLE PMEYSVVVWS SGVDIISHLQ FLIKD.		
Formulation	The PHOSPHO2 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.		

### Introduction

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.

### Stability

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

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.

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