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## Data Sheet

### PTP1B

Human, recombinant, N-terminal GST tag

**Catalog #:** 30009

**Lot #:** 120322      **Conc.** 1.65 mg/ml

**Formulated in:** 45 mM Tris-HCl, pH 8.0,  
 124 mM NaCl, 2.4 mM KCl, 10% glycerol,  
 18 mM Glutathione, and 3 mM DTT.

**Stability:**

>6 months at -80 °C

**References:**

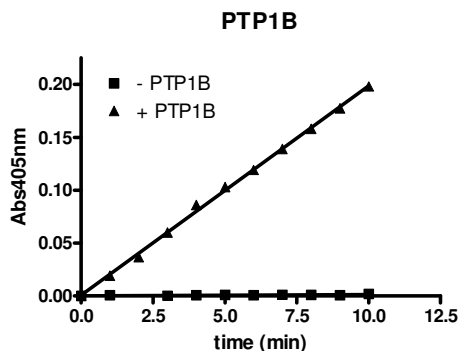
1. Frangioni *et al.*, *Cell*, 1992, **68**: 545
2. M. Elchebly *et al.*, *Science* 1999, **283**: 1544

**Description:** Protein tyrosine phosphatase, full length, (a.a. 1-436), (Genbank accession number M31724) with N-terminal GST-tag, MW=76 kDa, expressed in *E. coli*.

**Specific Activity:** 2,000 pmole/min/μg. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30°C. Assay conditions: Enzyme reaction (50 μl) containing 20 mM HEPES, pH 7.2, 100 mM NaCl, 2 mM EDTA, 1 mM DTT, 1 mM pNPP and PTPase was monitored at 405 nm continuously. Specific activity was calculated based on  $\epsilon_{\text{pNP}} = 18,000 \text{ M}^{-1}\text{cm}^{-1}$ .

**Application:** Useful for the study of enzyme kinetics, regulation, to dephosphorylate target substrates and for screening inhibitors.

### Quality Assurance

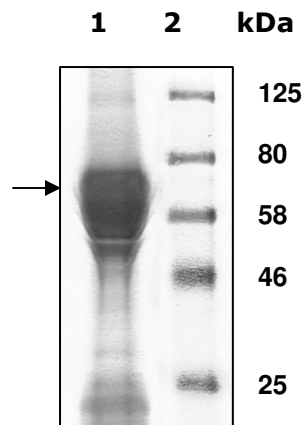


**10% SDS-PAGE  
 Coomassie staining**

**Lane 1:**  
 30 μg PTP1B

**Lane 2:**  
 Protein Marker  
 BioLabs (#P7708L)

**MW:** 76 kDa.  
**Purity:** ≥55%



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