

**PTP 1B**

Protein Tyrosine Phosphatase 1B
human, recombinant, *E. coli*

Cat. No.	Amount
PR-931	20 µg

For general laboratory use.

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Molecular Weight: 37.3 kDa

Accession number: NP_002818

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 50 mM HEPES pH 7.4, 40 mM NaCl, 1 mM EDTA, 1 mM DTT and 2 mM beta-Mercaptoethanol)

Description:

PTP 1B is the prototype nontransmembrane protein tyrosine phosphatase. It is a ubiquitous protein that was originally identified in human placenta. This highly active enzyme is well suited for the study of tyrosine phosphatase kinetics and substrate specificity, as well as for the screening of inhibitors.

Activity:

1 nmol of PTP 1B will hydrolyze 37 nmol of pNPP per minute at 30°C.

Selected References:

Montalibet *et al.* (2004) Using yeast to screen for inhibitors of protein tyrosine phosphatase 1B. *Biochem. Pharmacol.* **68**:1807.

Puius *et al.* (1997) Identification of a second aryl phosphatebinding site in protein-tyrosine phosphatase 1B: a paradigm for inhibitor design. *Proc. Natl. Acad. Sci. USA.* **94**:13420.

Liu *et al.* (1996) Direct binding of the proline-rich region of protein tyrosine phosphatase 1B to the Src homology 3 domain of p130 (Cas). *J. Biol. Chem.* **271**:31290.