



Protein Tyrosine Phosphatase1B (PTP1B) Positive Control
Product Data Sheet
For Research Use Only, Not for use in diagnostic procedures

**Protein Tyrosine Phosphatase1B
(PTP1B) Positive Control**
(Human, full length, recombinant enzyme expressed in *E. coli.*)
Cat# CY-E1350

Lot No.
For 100 Assays
(20 units/ μ L x 500 μ L)

Product Description: Human full length PTP1B, containing a *N*-terminal GST tag, expressed in *E. coli*. Purified by GSH agarose chromatography. The PTP1B Positive control is designed to use for CycLex Protein Tyrosine Phosphatase 1B (PTP1B) Fluorometric Assay Kit [Cat# CY-1350]. The PTP1B Positive Control should be added to the well at at 100 units/well. Unused PTP1B Positive control should be stored at -70°C. AVOID FREEZE/THAW CYCLES!

Formulation: The recombinant PTP1B Positive Control is supplied frozen in a buffer containing 100mM NaCl, 20mM Tris-HCl (pH 8.0), 1mM DTT, 1mM EDTA and 50% glycerol. Use a same buffer for dilution when needed.

Source: Human full length PTP1B, containing *N*-terminal GST tag, expressed in *E. coli*.

Molecular Weight: The recombinant PTP1B demonstrates approximately 64 kDa band by SDS-PAGE analysis.

Purity: The recombinant PTP1B is greater than 80 % pure as determined by SDS-PAGE analysis.

Substrates: PTP1B dephosphorylates a number of substrates, including phosphopeptide (EGFR residues 988 – 998; R-R-L-I-E-D-A-E-pY-A-A-R-G)

Inhibitors: Sodium Orthovanadate and RK-682 are known as effective PTP inhibitor.

Unit Definitions: One unit is defined as the amount of phosphatase required to release 1 pmol of phosphate from CycLex PTP substrate peptide-1 per minute at 30°C. Specific Activity will vary between production lots.

Storage: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability: Unopened vial at -70 °C, for 1 year after delivery.

Related Products:

- * Protein Tyrosine Phosphatase 1B (PTP1B) Fluorometric Assay Kit: Cat# CY- CY-1350
- * T-Cell Protein Tyrosine Phosphatase (TC-PTP) Fluorometric Assay Kit: Cat# CY- CY-1351
- * T-Cell Protein Tyrosine Phosphatase (TC-PTP) Positive Control: Cat# CY- CY-E1351



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General References:

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