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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



6044 Cornerstone Court W, Ste E
San Diego, CA 92121
Tel: 1.858.829.3082
Fax: 1.858.481.8694
Email: info@bpsbioscience.com

Data Sheet

PTP1B (rat)

Catalog #: 30011

Lot#: 1000 **Conc.:** 3.0 mg/ml

Expression System: Rat recombinant human PTP1B Protein tyrosine phosphatase, also known as PTPN1, catalytic domain, (a.a. 1-321), (Genbank accession no. NM_012637.2) with an N-terminal GST-tag, MW=63.3 kDa, expressed in *E. coli*.

Purity: The purity is >95%. Purified using glutathione-agarose beads. The purified GST fusion proteins were analyzed on Coomassie-stained SDS gel.

Formulated in: 25 mM Tris-HCl, 75 mM NaCl, pH 8.0, 0.05% Tween-20, 10 mM glutathione, 1 mM DTT and 50% glycerol.

Activity: The activity of rat PTP1B was determined using pNPP.

Assay Conditions: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl, 20 mM pNPP, 5 min incubation at 30°C, using 2 µg/ml enzyme

Unit Definition: One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30°C.

Stability: Stable for >6 months at -80°C from date of shipment.

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

References:

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

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