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# Recombinant Mouse PTPN6/SH-PTP1 Protein (aa 207-597, His & GST Tag)

Catalog No. PKSM040450

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Synonyms 70Z-SHP;hcp;Hcph;me;Ptp1C;PTPTY-42;SH-PTP1;SHP-1

Species Mouse

**Expression Host** Baculovirus-Insect Cells

Sequence Ala207-Lys597

Accession P29351-2
Calculated Molecular Weight 72.7 kDa
Observed molecular weight 63 kDa
Tag N-His-GST

**Bioactivity** Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF

receptor 988998 phosphopeptide substrate, R&D Systems, Catalog # ES006. The

specific activity is  $> 4 \mu$ moles/min/ $\mu$ g.

## **Properties**

**Purity** > 85 % as determined by reducing SDS-PAGE.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.0, 10% glycerol

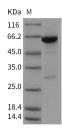
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

### Data



> 85 % as determined by reducing SDS-PAGE.

## Background

#### For Research Use Only

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#### **Elabscience Bionovation Inc.**



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PTPN6 is an enzyme which belongs to the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of PTPN6 contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of PTPN6 with its substrates. PTPN6 is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. It has been shown that PTPN6 interacts with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling.

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