

Datasheet for ABIN934896

**SHP1 Protein**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	SHP1 (PTPN6)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	MGFWEEFESL QKQEVKNLHQ RLEGQRPENK GKNRYKNILP FDHSRVILQG RDSNIPGSDY INANYIKNQL LGPDENAKTY IASQGCLEAT VDNDFWQMAWQ ENSRVIVMTT REVEKGRNKC VPYWPEVGMQ RAYGPYSVTN CGEHD TTEYK LRTLQVSPLD NGDLIREIWH YQYLSWPDHG VPSEPGGVLS FLDQINQRQE SLPHAGPIIV HCSAGIGRTG TIIVIDMLME NISTKGLDCD IDIQKTIQMV RAQRSGMVQT EAQYKFIYVA IAQFIETTKK KLEVLSQKQ QESEYGNITY
Characteristics:	Purified recombinant Human SHP1 protein Expression System: E.coli Bioactivity: >5,000units/mg of SHP-1 Molecular weight on SDS-PAGE will appear higher.
Purity:	> 95 % pure
Endotoxin Level:	< 1.0 EU per µg of protein (determined by LAL method)

## Target Details

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Target:	SHP1 (PTPN6)
Alternative Name:	SHP1 ( <a href="#">PTPN6 Products</a> )
Background:	<p>The protein coding region of the catalytic domain of SHP-1 (amino acids 243-541) was cloned into an E. coli expression vector. The catalytic domain of SHP-1 was overexpressed as insoluble protein aggregates (inclusion bodies). The recombinant SHP-1 protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer. Additional amino acid(Met) is attached at N-terminus.</p> <p>Alternative Names: Protein tyrosine phosphatase non-receptor type 6 isoform 1 protein, PTPN6 protein, SHP1, SHP 1 protein, SHP-1, Tyrosine-protein phosphatase non-receptor type 6 protein, Hematopoietic cell phosphatase protein, Hematopoietic cell protein tyrosine phosphatase protein, Protein tyrosine phosphatase SHP 1 protein, SHP-1 protein, HCP protein, HCPH protein, Protein-tyrosine phosphatase 1C protein, SHP 1, SHPTP 1 protein, HCP protein, SHP 1 protein, SH PTP1 protein, 70 kda SHP1L protein protein, SHP 1L protein, SH PTP 1 protein, SH-PTP1 protein, PTP1C protein, Protein-tyrosine phosphatase SHP-1 protein, PTP 1C protein, HPTP1C protein, Protein tyrosine phosphatase 1C protein, SHP1 protein, HPTP 1C protein, SHP-1L EC 3.1.3.48 protein, PTPN6 protein, Hematopoietic cell protein-tyrosine phosphatase protein, Protein tyrosine phosphatase SHP1 protein, Tyrosine protein phosphatase non receptor type 6, SHPTP1 protein, SHP1L protein, PTPN 6 protein, PTP-1C protein, EC 3.1.3.48 protein</p>

Molecular Weight:	34.3 kDa (300 AA)
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Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">BCR Signaling</a>
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## Application Details

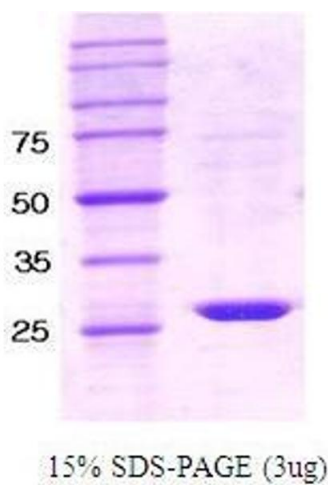
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Application Notes:	SHP1 protein has been used in SDS PAGE and may be suitable for use in other assays to be determined by the end user.
Comment:	One unit will hydrolyze 1 nM of p-nitrophenyl- phosphatate(pNPP) per minute at pH 7.4 at 37 °C using 10 mM of substrate.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Supplied as a liquid in 25 mM Tris-HCl, pH7.5, containing 2 mM beta-mercaptoethanol, 1 mM EDTA, 1 mM DTT, and 20 % glycerol.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	RT/-20 °C
Storage Comment:	Store at 4 °C for short term storage (1/2 weeks). Aliquot and store at -20 °C or -70 °C for long term storage.

## Images



### SDS-PAGE

**Image 1.** Figure annotation denotes ug of protein loaded and % gel used.