

# Active Recombinant Human PTPN11 Protein, N-terminal 6XHis and AviTag™, Biotinylated

Cat. No. PTPN11-18H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant SHP2 protein with the N-terminal AviTag™ peptide and His-tag is produced in E. coli cells and site-specifically biotinylated at AviTag with BirA enzyme.

### Species

Human

### Source

E.coli

### ProteinLength

1-593

### Description

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia.

### Bio-activity

Specific Activity:  $\geq 100$  pmol/min/ $\mu$ g.

### Molecular Mass

~71 kDa

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<b>Purity</b>	> 80% by Coomassie staining
<b>Notes</b>	This product is for laboratory research use only.
<b>Storage</b>	Storage is recommended at -20 centigrade for longer periods of time.
<b>Concentration</b>	1.0 mg/mL by A280
<b>Storage Buffer</b>	20 mM HEPES, pH 7.5, 100 mM NaCl, 5 mM DTT, 5 mM para-nitrophenylphosphate (PNPP), 30 min at 30 centigrade. Absorbance is measured at 405 nm.
<b>Shipping</b>	Product requires shipping on ice packs.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPN11 protein tyrosine phosphatase non-receptor type 11 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">PTPN11</a>
<b>Synonyms</b>	PTPN11; protein tyrosine phosphatase non-receptor type 11; CFC; NS1; JMML; SHP2; BPTP3; PTP2C; METCDS; PTP-1D; SH-PTP2; SH-PTP3; tyrosine-protein phosphatase non-receptor type 11; SH2 domain-containing protein tyrosine phosphatase 2; protein-tyrosine phosphatase 1D; protein-tyrosine phosphatase 2C; EC 3.1.3.48
<b>Gene ID</b>	<a href="#">5781</a>
<b>mRNA Refseq</b>	<a href="#">NM_080601</a>

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<b>Protein Refseq</b>	NP_542168
<b>MIM</b>	176876
<b>UniProt ID</b>	Q06124

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