

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: ≥ 100 pmol/min/ μ g.
Molecular Mass	~71 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% by Coomassie staining
Notes	This product is for laboratory research use only.
Storage	Storage is recommended at -20 centigrade for longer periods of time.
Concentration	1.0 mg/mL by A280
Storage Buffer	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.
Shipping	Product requires shipping on ice packs.
Conjugation	Biotin

GENE INFORMATION

Gene Name	PTPN11 protein tyrosine phosphatase non-receptor type 11 [Homo sapiens (human)]
Official Symbol	PTPN11
Synonyms	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
Gene ID	5781
mRNA Refseq	NM_080601

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_542168
MIM	176876
UniProt ID	Q06124

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA