

Active Recombinant Human PTPN11 Protein(Full length), N-GST-tagged

Cat. No. PTPN11-04H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PTPN11 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-593 a.a.
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	7,800 nmol/min/mg
Molecular Mass	98 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	The purity was determined to be > 90% by densitometry.
Applications	Phosphatase Assay, Western Blot
Stability	One year at -70 centigrade from date of shipment.
Storage	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 20 mM MOPS, pH 7.5, 300 mM NaCl, 10 mM glutathione, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

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_002834

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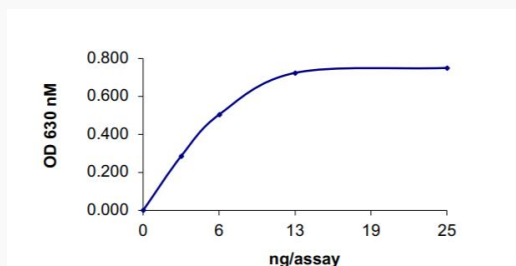
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Protein Refseq NP_002825

MIM 176876

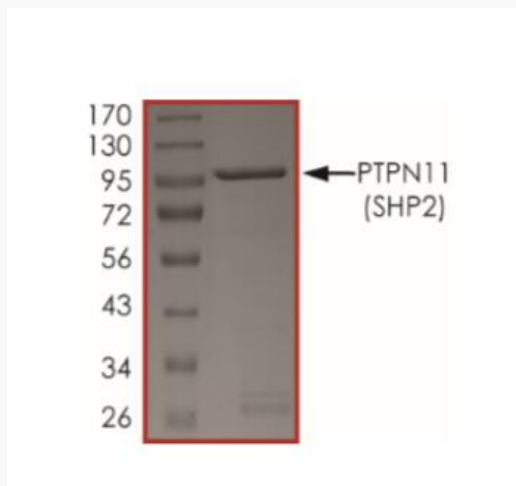
UniProt ID Q06124

Biological Activity



The specific activity of PTPN11 was determined to be 7,800 nmol phosphate released/min/mg as per activity assay protocol.

Purity



The purity was determined to be > 90% by densitometry. Approx. MW 98 kDa.

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