

Recombinant Human SHP-2/PTPN11 Protein

Catalog No.: RP03279LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5781	Q06124

Tags

N-GST

Synonyms

Tyrosine-protein phosphatase non-receptor type 11; PTP-1D; PTP-2C; SH-PTP2; SHP-2; Shp2; SH-PTP3; PTPN11; PTP2C; SHPTP2; CFC; NS1; JMML; BPTP3; METCDS

Product Information

Source	Purification
Baculovirus-Insect Cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
98 kDa	98 kDa

Endotoxin

Please contact us for more information.

Formulation

Supplied as a 0.22 µm filtered solution of 20 mM MOPS, 300 mM NaCl, 10 mM glutathione, 0.25-1 mM DTT, 0-0.1 mM PMSF, 10-25% glycerol, pH 7.5. Contact us for customized product form or formulation.

Reconstitution

Contact

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Background

PTPN11/SHP-2 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.

Basic Information

Description

Recombinant Human SHP-2/PTPN11 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Arg593) of human SHP-2/PTPN11 (Accession #NM_002834) fused with a GST tag at the N-terminus.

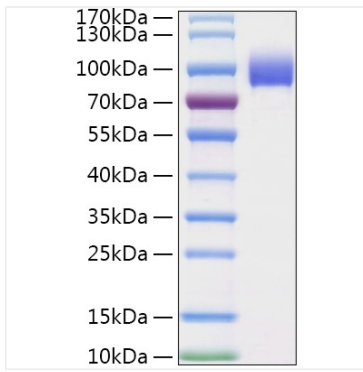
Bio-Activity

Please contact us for more information.

Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human PTPN11/SHP-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 95-100 kDa.