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## 32-13003: PTPN11 Human, Active

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| **Application :** | Functional Assay |
| **Alternative Name :** | PTPN11, Tyrosine-protein phosphatase non-receptor type 11, Protein-tyrosine phosphatase 1D, PTP-1D, Proteintyrosine phosphatase 2C, PTP-2C, SH-PTP2, SH-PTP3, BPTP3, CFC, JMML, METCDS, NS1, SHP-2, shp-2, PTP2C, SHPTP2. |

## Description

Source: Sf9, Insect cells.
Sterile Filtered clear solution.
Protein Tyrosine Phosphatase Non Receptor Type-11 or PTPN11 has 2 Src homology 2 domains and part of the tyrosine phosphatase group of proteins. PTPN11 is responsible for the catalyzation of tyrosine residues dephosphorylation in proteins and takes part in the stimulation and activation of Erk/MAP kinase transduction via signals from tyrosine kinase. Noonan syndrome and acute myeloid leukemia can be caused from mutations in PTPN11.
PTPN11 Human produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 602 amino acids ( 1-593 a.a.) and having a molecular mass of 69.1 kDa.PTPN11 is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

## Product Info

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| **Amount :** | 5 µg / 20 µg |
| **Purification :** | Greater than 90.0% as determined by SDS-PAGE. |
| **Content :** | PTPN11 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol. |
| **Storage condition :** | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles. |
| **Amino Acid :** | ADPMTSRRWF HPNITGVEAE NLLLTRGVDG SFLARPSKSN PGDFTLSVRR NGAVTHIKIQ NTGDYYDLYG GEKFATLAEL VQYYMEHHGQ LKEKNGDVIE LKYPLNCADP TSERWFHGHL SGKEAEKLLT EKGKHGSFLV RESQSHPGDF VLSVRTGDDK GESNDGKSKV THVMIRCQEL KYDVGGGERF DSLTDLVEHY KKNPMVETLG TVLQLKQPLN TTRINAAEIE SRVRELSKLA ETTDKVKQGF WEEFETLQQQ ECKLLYSRKE GQRQENKNKN RYKNILPFDH TRVVLHDGDP NEPVSDYINA NIIMPEFETK CNNSKPKKSY IATQGCLQNT VNDFWRMVFQ ENSRVIVMTT KEVERGKSKC VKYWPDEYAL KEYGVMRVRN VKESAAHDYT LRELKLSKVG QGNTERTVWQ YHFRTWPDHG VPSDPGGVLD FLEEVHHKQE SIMDAGPVVV HCSAGIGRTG TFIVIDILIDIIREKGVDCD IDVPKTIQMV RSQRSGMVQT EAQYRFIYMA VQHYIETLQR RIEEEQKSKR KGHEYTNIKY SLADQTSGDQ SPLPPCTPTP PCAEMREDSA RVYENVGLMQ QQKSFRHHHH HH |

## Application Note

Specific activity is grather than 400 unit/mgÃ Â  and is defined as the amount of enzyme that hydrolyze 1.0 nmole of pnitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.