
Product Data Sheet

Product Name: PTPN11 Human, Active

Cat. No.: GP26196

Batch No.: 1

Product Data

Purity >98% Source Sf9, Insect cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms 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.

Amino Acid Sequence
 ADPMTSRRWF HPNITGVEAE NLLLTRGVDG SFLARPSKSN PGDFTLSVRR
 NGAVTHIKIQ NTGDYYDLYG GEKFATLAEL VQYYMEHHGQ LKEKNGDVIE
 LKYPLNCADP TSERWFHGH LSGKEAEKLLT EKGKHGSFLV RESQSHPGDF
 VLSVRTGDDK GESNDGKSKV THVMIRCQEL KYDVGGGERF DSLTDLVEHY
 KKNPMVETLG TVLQLKQPLN TTRINAAEIE SRVRELSKLA ETTDKVKQGF
 WEEFETLQQQ ECKLLYSRKE GQRQENKNKN RYKNILPFDH TRVVLHDGDP
 NEPVSDYINA NIIMPEFETK CNNSKPKKSY IATQGCLQNT VNDFWRMVFAQ
 ENSRVIVMTT KEVERGKSKC VKYWPDEYAL KEYGVMRVRN VKESAAHDYT
 LRELKLSKVG QGNTERTVWQ YHFRTWPDHG VSPDPGGVLD FLEEVHHKQE
 SIMDAGPVVV HCSAGIGRTG TFIVIDILIDIIREKGVDCD IDVPKTIQMV
 RSQRSGMVQT EAQYRFIYMA VQHYIETLQR RIEEEQKSKR KGHEYTNIKY
 SLADQTSGDQ SPLPPCTPTP PCAEMREDSA RYENVGLMQ QQKSFRHHHH
 HH

Formulation PTPN11 protein solution (1mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

kinase. Noonan syndrome and acute myeloid leukemia can be caused from mutations in PTPN11.

Biological Activity

Specific activity is greater than 400 unit/mg and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37°C.

Stability

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA