

Recombinant human SHP-2/PTPN11 protein

Catalog Number: ATGP3714

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

1-460aa

UniProt No.

Q06124

NCBI Accession No.

NP_542168.1

Alternative Names

Protein tyrosine phosphatase non-receptor type 11, NS1, Noonan syndrome 1, SH2 domain-containing protein tyrosine phosphatase 2, SHP-2, Protein-tyrosine phosphatase 1D, PTP-1D, Protein-tyrosine phosphatase 2C, PTP-2C, PTP2C, SHP2, BPTP3, SH-PTP2

PRODUCT SPECIFICATION

Molecular Weight

53.9 kDa (469aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PTPN11, also known as tyrosine-protein phosphatase non-receptor type 11 isoform 2, belongs to the protein-tyrosine phosphatase (PTP) family, non-receptor class 2 subfamily. It participates in signal transduction from the

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cell surface to the nucleus downstream of various receptor and cytosolic protein tyrosine kinases. This protein deficient cells have poor mobility because excessive phosphorylation of FAK and other proteins interferes with the rotation of cell attachment points in the focal adhesion complex. Recombinant human PTPN11, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

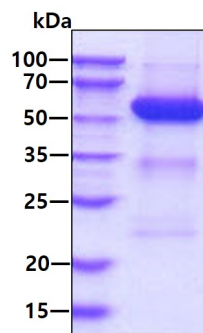
<ADP>MTSRRWF HPNITGVEAE NLLLTRGVDG SFLARPSKSN PGDFTLSVRR NGAVTHIKIQ NTGDYYDLYG GEKFATLAEI
VQYYMEHHGQ LKEKNGDVIE LKYPLNCADP TSERWFHGH LSGKEAEKLLT EKGKHGSFLV RESQSHPGDF VLSVRTGDDK
GESNDGKSKV THVMIRCQEL KYDVGGGERF DSLTDLVEHY KKNPMVETLG TVLQLKQPLN TTRINAAEIE SRVRELSKLA
ETTDKVKQGF WEEFETLQQQ ECKLLYSRKE GQRQENKNKN RYKNILPFDH TRVVLHDGDP NEPVSDYINA NIIMPEFETK
CNNSKPKKSY IATQGCLQNT VNDFWRMVFQ ENSRVIVMTT KEVERGKSKC VKYWPDEYAL KEYGVMRVRN VKESAAHDYT
LRELKLSKVG QGNTERTVWQ YHFRTWPDHG VPSDPGGVLD FLEEVHHKQE SIMDAGPVVV HCR<HHHHHH>

General References

Clemmons, D.R., et al. (2005) Mol. Endocrinol. 19:1-11.
Maroun, C.R., et al. (2000) Mol. Cell. Biol. 20:8513-8525.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.