A Reliable Research Partner in Life Science and Medicine

Recombinant Human PTPN11 protein (His tag)

Catalog No. PDEH100261

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms BPTP3;CFC;JMML;METCDS;NS1;PTN11;PTP-1D;PTP2C;SAP2;SH-PTP2;SH-

PTP3;SHP2;SHPTP2;SHPTP3;Syp

Species Human
Expression Host E.coli

SequenceThr 2-Ala 521AccessionQ06124Calculated Molecular Weight57.1 kDaObserved molecular weight60 kDaTagN-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

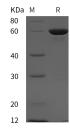
protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

Elabscience Bionovation Inc.



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SHP-2 (PTPN11) is a ubiquitously expressed, nonreceptor protein tyrosine phosphatase (PTP). It participates in signaling events downstream of receptors for growth factors, cytokines, hormones, antigens, and extracellular matrices in the control of cell growth, differentiation, migration, and death. Activation of SHP-2 and its association with Gab1 is critical for sustained Erk activation downstream of several growth factor receptors and cytokines. In addition to its role in Gab1-mediated Erk activation, SHP-2 attenuates EGF-dependent PI3 kinase activation by dephosphorylating Gab1 at p85 binding sites. SHP-2 becomes phosphorylated at Tyr542 and Tyr580 in its carboxy terminus in response to growth factor receptor activation. These phosphorylation events are thought to relieve basal inhibition and stimulate SHP-2 tyrosine phosphatase activity. Mutations in the corresponding gene result in a pair of clinically similar disorders (Noonan syndrome and LEOPARD syndrome) that may result from abnormal MAPK regulation.

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