Recombinant Mouse PTPN2/PTPT Protein (aa 2-314, His Tag)



Catalog Number: PKSM040482

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

Description

Synonyms AI325124;Ptpt;TC-PTP

Species Mouse

Expression Host Baculovirus-Insect Cells

SequenceSer 2-Asn 314AccessionQ06180-1Calculated Molecular Weight38.7 kDaObserved molecular weight42 kDaTagN-His

Bioactivity Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF

receptor 988-998 phosphopeptide substrate, R&D Systems, Catalog # ES006. The

specific activity is > 15 nmoles/min/µg.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

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 20mM Tris, 500mM NaCl, pH 8.0, 20% glycerol, 0.1mM

TCEP

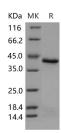
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printe

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Tyrosine-protein phosphatase non-receptor type 2, also known as T-cell protein-tyrosine phosphatase, PTPN2 and PTPT, is a cytoplasm protein which belongs to the protein-tyrosine phosphatase family and Non-receptor class 1 subfamily. Members of the protein tyrosine phosphatase (PTP) family share a highly conserved catalytic motif, which is essential for the catalytic activity. TC-PTP / PTPN2 is a cytosolic tyrosine phosphatase that functions as a negative regulator of a

For Research Use Only

A Reliable Research Partner in Life Science and Medicine

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

Web: www.elabscience.com Email: techsupport@elabscience.com

Recombinant Mouse PTPN2/PTPT Protein (aa 2-314, His Tag)



Fax: 1-832-243-6017

Catalog Number: PKSM040482

variety of tyrosine kinases and other signaling proteins. The expression of TC-PTP / PTPN2 plays a role of tumor suppressor and may modulate response to treatment. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. TC-PTP / PTPN2 is an enzyme that is essential for the proper functioning of the immune system and that participates in the control of cell proliferation, and inflammation.TC-PTP / PTPN2 was identified as a negative regulator of NUP214-ABL1 kinase activity.

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

Web: www.elabscience.com
Email: techsupport@elabscience.com