Recombinant Human PTP-1B/PTPN1 Protein

Catalog No.: RP02940LQ

Sequence Information

Species
Human

Gene ID
5770

Swiss Prot
P18031

Tags
N-His

Synonyms
PTPN1,PTP1B

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
38.1 kDa

Observed MW
38 kDa

Endotoxin
Please contact us for more information.

Formulation
Supplied as a 0.22 μm filtered solution in PBS, pH 7.4.

Reconstitution

Background

PTP1B, also known as PTPN1, belongs to the protein-tyrosine phosphatase (PTP) family. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTP1B contains 1 tyrosine-protein phosphatase domain and is expressed in many tissues. PTP1B is localized to the cytoplasmic face of the endoplasmic reticulum. PTP1B was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of PTP1B in cell growth control, and cell response to IFN stimulation.

Basic Information

Description
Recombinant Human PTP-1B/PTPN1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Glu2-Asn321) of human PTP-1B/PTPN1 (Accession #NP_002818.1) fused with and a 6×His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

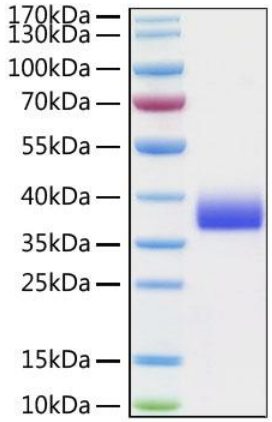
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human PTP-1B/PTPN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.