

Recombinant Human PTP-1B/PTPN1 Protein

Catalog No.: RP02940LQ **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 5770 | P18031 |

Tags

N-His

Synonyms

PTPN1;PTP1B

Product Information

| Source | Purification |
|----------------|--------------------|
| <i>E. coli</i> | > 95% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 38.1 kDa | 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.

Bio-Activity

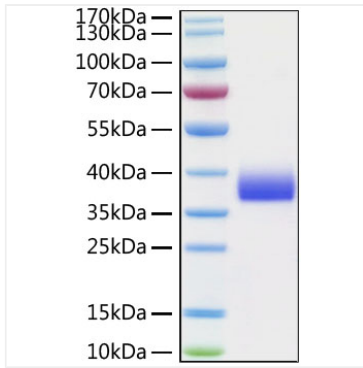
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

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Validation Data



Recombinant Human PTP-1B/PTPN1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38 kDa.