Protein Tyrosine Phosphatase PTPN12/PTP-PEST

Human, recombinant protein expressed in *E. coli.*, Active

Cat# CY-E1368

Amount: **50µg (0.19µg/µl)**
Lot:

Introduction:

PTP-PEST family contains an N-terminal PTP domain and C-terminal PEST and proline-rich domains, which are docking sites for a number of proteins, including adaptor proteins, Grb2 and Shc, focal adhesion-associated scaffolding proteins, Cas, paxillin, and the paxillin-related protein, hic-5, the protein-tyrosine kinase, Csk, and the cleavage furrow-associated protein, PSTPIP. PTP-PEST is implicated as negative regulators of B and T cell signaling, in part by controlling cytoskeletal changes required for lymphocyte function. In non-lymphoid cells, PTP-PEST regulates cell migration.

Product Description:

Phosphatase domain of human PTPN12/PTP-PEST, containing an N-terminal GST tag, expressed in *E. coil.* and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is NM_002835.

Gene Aliases:

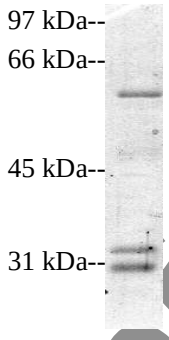
Protein tyrosine phosphatase non-receptor type 12, PTPN12, PTPG1, PTP-PEST

Formulation:

Recombinant PTPN12/PTP-PEST is supplied frozen in a buffer containing 100mM NaCl, 20mM Tris-HCl (pH 7.0), 1mM DTT, 1mM EDTA and 50% glycerol. Use a same buffer for dilution when needed.

Molecular Weight:

Recombinant PTPN12/PTP-PEST demonstrates approximately 60 kDa band by SDS-PAGE analysis.



Coomassie blue stain

Specific Activity:

205 units/µg. This unit value is determined at the point of production and may vary with time and various conditions. Specific Activity also varies among production lots.

Unit Definitions:

One unit is defined as the amount of phosphatase required to release 1 pmol of phosphate from CycLex's PTP substarate-1 per minute at 30°C.

Storage:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

References:

1. Sastry SK, Lyons PD, Schaller MD, Burridge K. PTP-PEST controls motility through regulation of Rac1. J Cell Sci. 2002 Nov 15;115(Pt 22):4305-16.
2. Mustelin T, Vang T, Bottini N. Protein tyrosine phosphatases and the immune response. Nat Rev Immunol. 2005 Jan;5(1):43-57.

PRODUCED BY

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