



Protein Tyrosine Phosphatase PTPN7/HePTP

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

Protein Tyrosine Phosphatase PTPN7/HePTP

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

Cat# CY-E1364

Amount: 50µg (5.0µg/ul)

Lot:

Introduction:

PTPN7, also called hematopoietic PTP (HePTP), is expressed mainly in thymus, spleen and leucocytes. PTPN7/HePTP plays a negative role in TCR (T-cell antigen receptor) signaling by down-regulating MAPK activity. Chromosome locus of PTPN7/HePTP is at 1q32.1, a site of frequent abnormalities in preleukaemic myelodysplastic syndrome and haematopoietic malignancies. overexpression of PTPN7/HePTP is shown in some patients with acute myeloblastic leukaemia, suggesting that PTPN7/HePTP links development of leukemia.

Product Description:

Phosphatase domain of human PTPN7/HePTP, containing an N-terminal GST tag, expressed in *E. coil.* and purified by GSH agarose chromatography. This recombinant protein contains one amino acid mutation of Q241P (cag to ccg) , which may be considered an unreported SNPs.

Gene Information:

The gene accession number is NM_002832.

Gene Aliases:

Protein tyrosine phosphatase non-receptor type 7, LC-PTP, LPTP, HePTP, PTPNI, BPTP-4

Formulation:

Recombinant PTPN7/LC-PTP 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:

97 kDa--
66 kDa--
45 kDa--
31 kDa--

Coomassie blue stain

Recombinant PTPN7/LC-PTP demonstrates approximately 60 kDa band by SDS-PAGE analysis.



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Specific Activity:

257 units/ μ g. 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 3-O-Methylfluorescein Phosphate (OMFP) 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. Gronda M, Arab S, Iafrate B, Suzuki H, Zanke BW. Hematopoietic protein tyrosine phosphatase suppresses extracellular stimulus-regulated kinase activation. *Mol Cell Biol.* 2001 Oct;21(20):6851-8.
2. Zanke B, Squire J, Griesser H, Henry M, Suzuki H, Patterson B, Minden M, Mak TW. A hematopoietic protein tyrosine phosphatase (HePTP) gene that is amplified and overexpressed in myeloid malignancies maps to chromosome 1q32.1. *Leukemia.* 1994 Feb;8(2):236-44.

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