



Protein Tyrosine Phosphatase PTPN14/PEZ

Product Data Sheet

For Research Use Only, Not for use in diagnostic procedures

Protein Tyrosine Phosphatase PTPN14/PEZ

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

Cat# CY-E1370

Amount: 50 µg (1.0 µg/µL)

Lot:

Introduction:

PTPN14/PEZ is a member of PTPs with homology to the band 4.1 proteins, characterised by the presence of an N-terminal FERM (4.1, ezrin, radixin, moesin) domain and a C-terminal PTP domain. Ectopic overexpression of PTPN14/PEZ led to decreases in actin stress fibre and focal adhesions, resulting in loss of cell-matrix adhesion and cell proliferation. ectopically expressed PTPN14/PEZ was associated with the plasma membrane and the cytoskeletal fraction, suggesting that it may play a role in the regulation of the cellular cytoskeleton.

Product Description:

Phosphatase domain of human PTPN14/PEZ, containing an N-terminal GST tag, expressed in *E. coli.* and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is NM_005401.

Gene Aliases:

Protein tyrosine phosphatase non-receptor type 14, PTPN14, PEZ, PTP36, PTP-D2

Formulation:

Recombinant PTPN14/PEZ 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 PTPN14/PEZ demonstrates approximately 58 kDa band by SDS-PAGE analysis.

Coomassie blue stain



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Specific Activity:

76 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. Smith AL, Mitchell PJ, Shipley J, Gusterson BA, Rogers MV, Crompton MR. Pez: a novel human cDNA encoding protein tyrosine phosphatase- and ezrin-like domains. *Biochem Biophys Res Commun.* 1995 Apr 26;209(3):959-65.
2. Ogata M, Takada T, Mori Y, Uchida Y, Miki T, Okuyama A, Kosugi A, Sawada M, Oh-hora M, Hamaoka T. Regulation of phosphorylation level and distribution of PTP36, a putative protein tyrosine phosphatase, by cell-substrate adhesion. *J Biol Chem.* 1999 Jul 16;274(29):20717-24.

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