

## Recombinant Human PTPN14, GST-tagged

Cat. No. PTPN14-454H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Catalytic domain, (a.a. 817-1188), with N-terminal GST tag expressed in an <i>E.coli</i> expression system. MW= 61 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | <i>E.coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Length</b>   | 817-1188 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Tyrosine-protein phosphatase non-receptor type 14 is an enzyme that in humans is encoded by the PTPN14 gene. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an N-terminal noncatalytic domain similar to that of band 4.1 superfamily cytoskeleton-associated proteins, which suggested the membrane or cytoskeleton localization of this protein. The specific function of this PTP has not yet been determined. |
| <b>Purity</b>           | >90% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Application</b>      | Useful for the study of enzyme kinetics, regulation, to dephosphorylate target substrates and for screening inhibitors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Formulated In</b>    | 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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**Stability** >12 months at –80°C.

## GENE INFORMATION

**Gene Name** PTPN14 protein tyrosine phosphatase, non-receptor type 14 [ Homo sapiens ]

**Synonyms** PTPN14; protein tyrosine phosphatase, non-receptor type 14; PEZ; PTP36; MGC126803; cytoskeletal-associated protein tyrosine phosphatase; EC 3.1.3.48; Tyrosine-protein phosphatase non-receptor type 14; Protein-tyrosine phosphatase pez

**Gene ID** 5784

**mRNA Refseq** NM\_005401

**Protein Refseq** NP\_005392

**MIM** 603155

**UniProt ID** Q15678

**Chromosome Location** 1q32.2

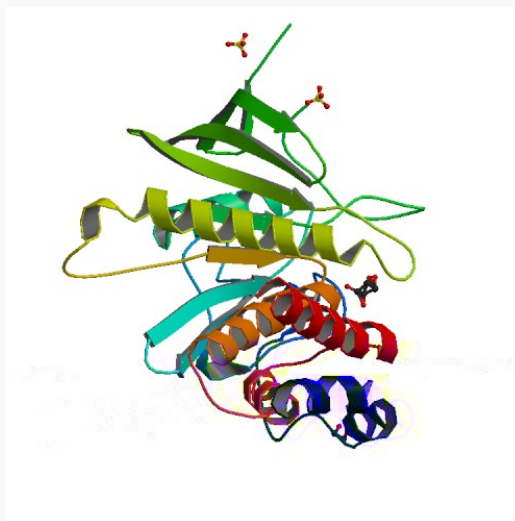
**Function** binding; hydrolase activity; protein tyrosine phosphatase activity

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