

## 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>	E.coli
<b>ProteinLength</b>	817-1188 a.a.
<b>Description</b>	<p>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.</p>
<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

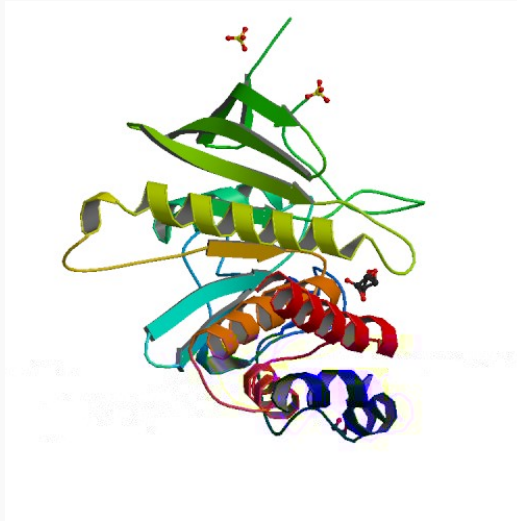
**Function** binding; hydrolase activity; protein tyrosine phosphatase activity

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