

## Recombinant Human PTP4A1(2-173), His-tagged

Cat. No. PTP4A1-504H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTP4A1 protein(2-173) with N-terminal His tag was expressed in an <i>E.coli</i> expression system, MW= 19.8 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-173 a.a.
<b>Description</b>	Protein tyrosine phosphatase type IVA 1 is an enzyme that in humans is encoded by the PTP4A1 gene. The protein encoded by this gene belongs to a small class of prenylated protein tyrosine phosphatases (PTPs), which contains a PTP domain and a characteristic C-terminal prenylation motif. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. This tyrosine phosphatase is a nuclear protein, but may primarily associate with plasma membrane. The surface membrane association of this protein depends on its C-terminal prenylation.
<b>Purity</b>	> 90%.
<b>Formulation</b>	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 20% glycerol, and 3 mM DTT.
<b>Specific Activity</b>	0.168 pmol/min/μg, Assay conditions: enzyme was incubated in 50mM Tris pH7.4, 150mM NaCl 5mM DTT, and 12.5mM PNPP as a substrate for 2h at 37°C. Absorbance was read by Tecan spectrophotometer at 405 nm wavelength.

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**Application** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

**Storage** >6 months at –80°C.

## GENE INFORMATION

**Gene Name** [PTP4A1 protein tyrosine phosphatase type IVA, member 1 \[ Homo sapiens \]](#)

**Synonyms** PTP4A1; protein tyrosine phosphatase type IVA, member 1; HH72; PRL1; PRL-1; PTPCAAX1; PTP(CAAX1); DKFZp779M0721; PTP(CAAXI); protein-tyrosine phosphatase 4a1; Protein tyrosine phosphatase IVA1; protein tyrosine phosphatase type IVA protein 1; protein-tyrosine phosphatase of regenerating liver 1; EC 3.1.3.48

**Gene ID** [7803](#)

**mRNA Refseq** [NM\\_003463](#)

**Protein Refseq** [NP\\_003454](#)

**MIM** [601585](#)

**UniProt ID** [Q93096](#)

**Chromosome Location** 6q12

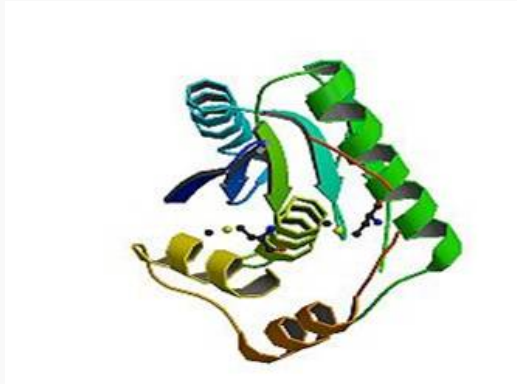
**Function** hydrolase activity; protein tyrosine phosphatase activity

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