

Recombinant Human PTP4A2(2-167), His-tagged

Cat. No. PTP4A2-505H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTP4A2 protein(2-167) with N-terminal His tag was expressed in an <i>E.coli</i> expression system, MW= 19.1 kDa.
Species	Human
Source	E.coli
Protein Length	2-167 a.a.
Description	Protein tyrosine phosphatase type IVA 2 is an enzyme that in humans is encoded by the PTP4A2 gene. The protein encoded by this gene belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTPs are cell signaling molecules that play regulatory roles in a variety of cellular processes. PTPs in this class contain a protein tyrosine phosphatase catalytic domain and a characteristic C-terminal prenylation motif. This PTP has been shown to primarily associate with plasmic and endosomal membrane through its C-terminal prenylation. This PTP was found to interact with the beta-subunit of Rab geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity.
Purity	> 90%.
Formulation	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 20% glycerol, and 3 mM DTT.
Specific Activity	0.334 pmol/min/μg, Assay conditions: enzyme was incubated in 50mM Tris pH7.4,

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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.

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

Storage >6 months at –80°C.

GENE INFORMATION

Gene Name PTP4A2 protein tyrosine phosphatase type IVA, member 2 [Homo sapiens]

Synonyms PTP4A2; protein tyrosine phosphatase type IVA, member 2; HH13; OV-1; PRL2; HH7-2; PRL-2; PTP4A; HU-PP-1; PTPCAAX2; ptp-IV1a; ptp-IV1b; Protein tyrosine phosphatase type IVA 2; EC 3.1.3.48; Protein-tyrosine phosphatase 4a2; BM-008; Protein-tyrosine phosphatase of regenerating liver 2

Gene ID 8073

mRNA Refseq NM_080391

Protein Refseq NP_536316

MIM 601584

UniProt ID Q12974

Chromosome Location 1p35

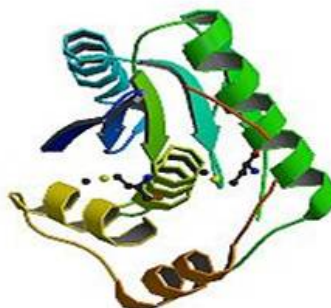
Function prenylated protein tyrosine phosphatase activity; hydrolase activity; protein binding

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