

Recombinant Human PTPRB, GST-tagged

Cat. No. PTPRB-1859H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRB protein(1675-1996) with N-terminal GST tag was expressed in an <i>E.coli</i> expression system, MW= 63.7 kDa.
Species	Human
Source	E.coli
Protein Length	1675-1996 a.a.
Description	Receptor-type tyrosine-protein phosphatase beta is an enzyme that in humans is encoded by the PTPRB 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.
Formulation	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.
Purity	> 95% by SDS-PAGE.
Specific Activity	40 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl, 50 mM pNPP.
Application	Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target

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substrates.

Storage >6 months at –80°C.

Pathways Adherens junction

GENE INFORMATION

Gene Name [PTPRB protein tyrosine phosphatase, receptor type, B \[Homo sapiens \]](#)

Synonyms protein tyrosine phosphatase, receptor type, B; PTPB; HPTPB; VEPTP; FLJ44133; MGC59935; HPTP-BETA; MGC142023; R-PTP-BETA; DKFZp686E2262; DKFZp686H15164; PTPRB; receptor-type tyrosine-protein phosphatase beta;VE-PTP; EC 3.1.3.48; protein-tyrosine phosphatase beta; vascular endothelial protein tyrosine phosphatase; protein tyrosine phosphatase, receptor type, beta polypeptide;R-PTP-beta;Protein-tyrosine phosphatase beta

Gene ID [5787](#)

mRNA Refseq [NM_001109754](#)

Protein Refseq [NP_001103224](#)

MIM [176882](#)

UniProt ID [P23467](#)

Chromosome Location 12q15-q21

Function hydrolase activity; protein binding; transmembrane receptor protein tyrosine

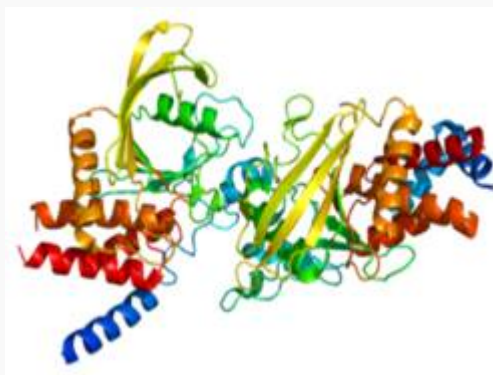
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phosphatase activity

PDB rendering based
on 2ahs



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