

Recombinant Human PRL-2 (Phosphatase of Regenerating Liver-2)

Cat. No.:	PTP001A	Size: 10 µg
Description:	PRL (phosphatase of regenerating liver) phosphatases comprise a class of small phosphatases with oncogenic activity, which are prenylated at their carboxy-termini. PRL-2 is associated with the regulation of mitosis. Yeast two-hybrid screening for PRL-2-interacting proteins identified the beta-subunit of Rab geranylgeranyltransferase II (betaGGT II), suggesting that PRL-2 may function as a regulator of GGT II activity. Human PRL-2 is a protein tyrosine phosphatase containing 167 amino acids. Recombinant human PRL-2 is expressed in <i>E. coli</i> ; it contains the catalytic domain of PRL-2 (residues 2-167) and has a molecular weight of 19 kDa.	
Source:	<i>E. coli</i>	
Formulation:	25 mM Tris-HCl (pH 8.0), 75 mM NaCl, 0.05% Tween-20, 2 mM EDTA, 1 mM DTT and 50% glycerol. Liquid at -20°C.	
Purity:	Greater than 95% as determined by Coomassie-stained SDS-PAGE gel.	
Stability:	3 months at -20°C.	
Specific Activity:	2.3 U/ug. One unit will hydrolyze 1 pmol of 6, 8-difluoro-4-methyl umbelliferyl phosphate (DiFMUP) per minute at pH 6.3 and 30°C. Assay buffer: 50 mM Bis-Tris (pH 6.3), 2 mM EDTA, 2 mM DTT, 100 mM DiFMUP.	
Applications:	Removal of phosphates from target substrates. Useful for the study of enzyme kinetics, regulation and for inhibitors screening.	

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