

Human PRL-1/PTP4A1 Protein



Cat. No. PRL-HE101

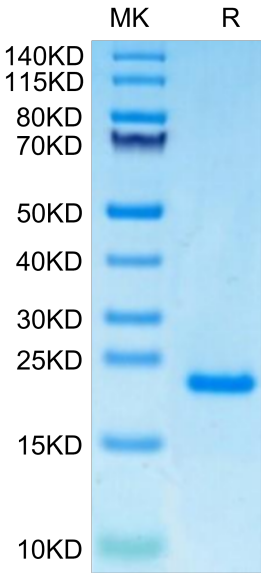
Description	
Source	Recombinant Human PRL-1/PTP4A1 Protein is expressed from E.coli with His tag at the N-Terminus. It contains Met1-Cys170.
Accession	Q93096
Molecular Weight	The protein has a predicted MW of 20.56 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in 20mM Tris, 250mM NaCl, 1mM DTT, 20% Glycerol (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Phosphatases of regenerating liver (PRL-1, PRL-2, and PRL-3, also known as PTP4A1, PTP4A2, and PTP4A3) control magnesium homeostasis through an association with the CNNM magnesium transport regulators. PRL-1 (PTP4A1) is a key molecule that activates tyrosine phosphorylation, which is important for cancer progression and metastasis.	

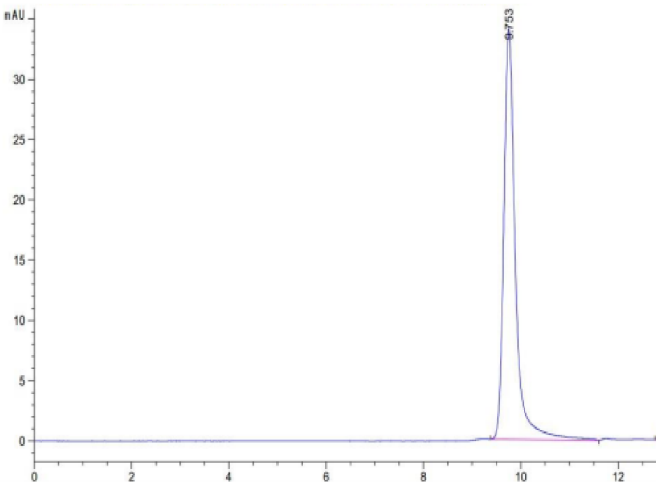
Assay Data

Bis-Tris PAGE



Human PRL-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human PRL-1 is greater than 95% as determined by SEC-HPLC.

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Assay Data

Bioactivity Data

Measured by its ability to cleave a substrate. p-Nitrophenyl phosphate (pNPP). The specific activity is > 0.5 pmol/min/μg.