

# Human PRL-2/PTP4A2 Protein

Cat. No. PRL-HE102

## Description

<b>Source</b>	Recombinant Human PRL-2/PTP4A2 Protein is expressed from E.coli with His tag at the N-Terminus. It contains Met1-Cys164.
<b>Accession</b>	Q12974-1
<b>Molecular Weight</b>	The protein has a predicted MW of 19.89 kDa same as Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

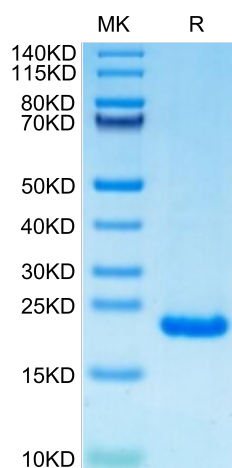
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 20mM Tris, 250mM NaCl, 1mM DTT, 20% Glycerol (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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-2 is a member of PTP family and has an important function in controlling cell growth.

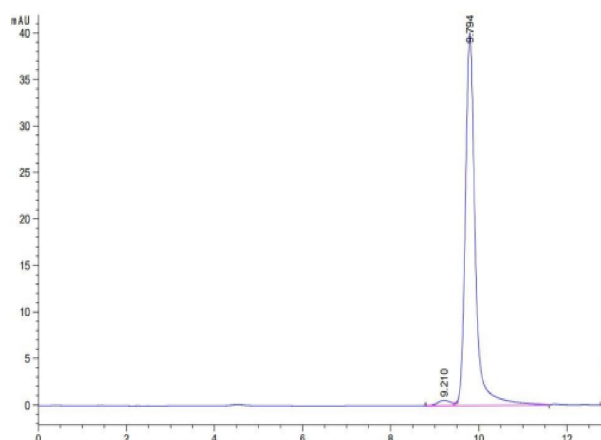
## Assay Data

### Tris-Bis PAGE



Human PRL-2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human PRL-2 is greater than 95% as determined by SEC-HPLC.

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#### Bioactivity Data

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