Human PRL-3/PTP4A3 Protein

Cat. No. PRL-HE103

Description

Source	Recombinant Human PRL-3/PTP4A3 Protein is expressed from E.coli with His tag at the N-Terminus.
	It contains Met1-Cys170.
Accession	O75365-1
Molecular Weight	The protein has a predicted MW of 20.29 kDa same as Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

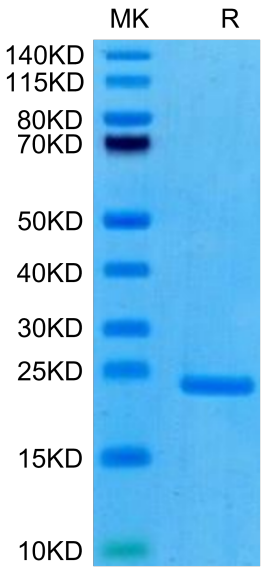
Formulation	Supplied as 0.22μm filtered solution in 20mM PB, 500mM NaCl, 2mM DTT, 20% Glycerol (pH 7.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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. PTP4A3 (PRL-3) plays an important role in the tumorigenesis and metastasis of multiple tumors.

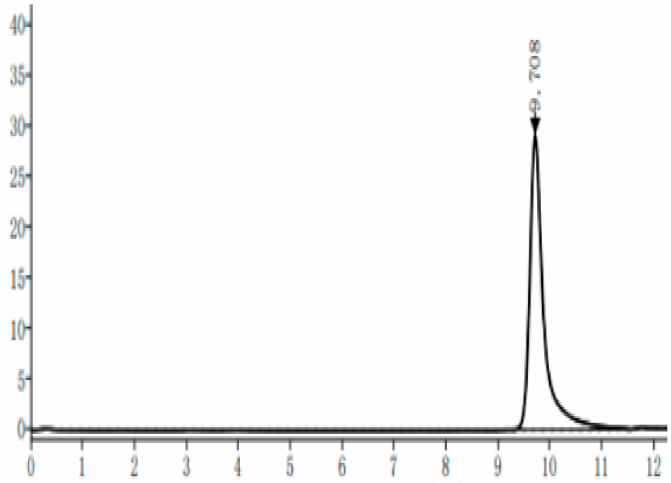
Assay Data

Bis-Tris PAGE



Human PRL-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human PRL-3 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Human PRL-3/PTP4A3 Protein

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Assay Data

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