

# Recombinant human PRL-3/PTP4A3 protein

Catalog Number: ATGP0398

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-173aa

### UniProt No.

O75365

### NCBI Accession No.

NP\_116000

### Alternative Names

Protein tyrosine phosphatase type IVA 3, PTP4A3, PRL3, Protein tyrosine phosphatase type IVA 3 Potentially prenylated protein tyrosine phosphatase, PRL 3, PRL R, PRLR, Protein tyrosine phosphatase 4a3, PTP 4A3, Protein Tyrosine Phosphatase Type IVA Member 3

## PRODUCT SPECIFICATION

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### Molecular Weight

21.6 kDa (193aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM EDTA, 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Protein tyrosine phosphatase type IVA 3 (PRL-3), as known as PTP4A3, belongs to a small class of prenylated protein tyrosine phosphatases (PTPs) that remove phosphate modifications from tyrosine residues on proteins.

## Recombinant human PRL-3/PTP4A3 protein

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This protein enhances cell proliferation, cell motility and invasive activity. High levels of PRL-3 expression are associated with tumorigenesis and metastasis, thus it is overexpressed in metastatic colorectal, ovarian, liver and skin cancers. Recombinant human PRL-3, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MARMNRPAPV EVSYKHMRF ITHNPTNATL STFIEDLK KY GATTVVRVCE VTYDKTPLEK  
DGITVVDWPF DDGAPPPGKV VEDWLSLVKA KFCEAPGSCV AVHCVAGLGR APVLVALALI ESGMKYEDAI QFIRQKRRGA  
INSKQLTYLE KYRPKQRLRF KDPHTHKTRC CVM

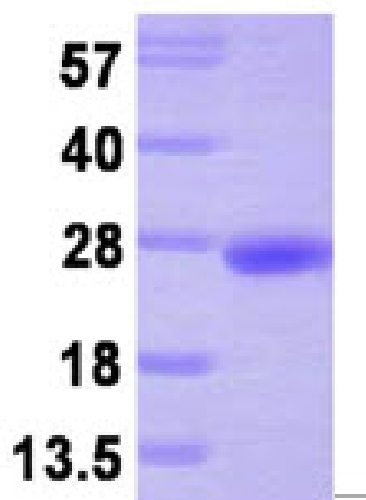
### General References

Ooki A., et al. (2009). *Oncol Rep.* 21(6):1467-75  
Wang Z., et al. (2009). *Ann Surg Oncol.* 16(1):208-19.

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)