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## Recombinant human PRL-3/PTP4A3 protein

Catalog Number: ATGP0398

### PRODUCT INFORMATION

### **Expression system**

E.coli

### **Domain**

1-173aa

### **UniProt No.**

075365

### **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**

### **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**

### **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.



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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**

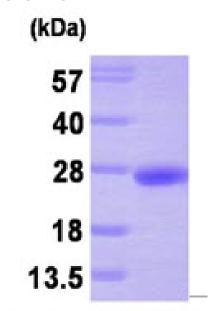
MGSSHHHHHH SSGLVPRGSH MARMNRPAPV EVSYKHMRFL ITHNPTNATL STFIEDLKKY GATTVVRVCE VTYDKTPLEK DGITVVDWPF DDGAPPPGKV VEDWLSLVKA KFCEAPGSCV AVHCVAGLGR APVLVALALI ESGMKYEDAI QFIRQKRRGA INSKQLTYLE KYRPKQRLRF KDPHTHKTRC CVM

### **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**





15% SDS-PAGE (3ug)

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

