

Recombinant human PRL-3/PTP4A3 protein

Catalog Number: ATGP0398

PRODUCT INFORMATION

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

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

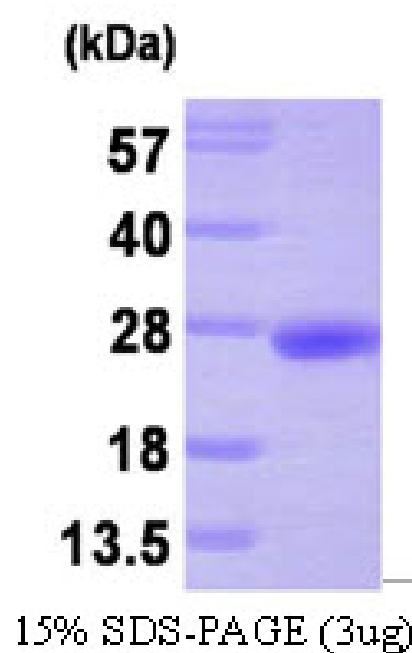
MGSSHHHHHH SSGLVPRGSH MARMNRPAPV EVSYKHMRF ITHNPTNATL STFIEDLK KY GATTVV RVCE VTYDKTPLEK
DGITVVDWPF DDGAPPPGKV VEDWLSLVKA KFCEAPGSCV AVHCVAGLGR APVLVALALI ESGMKYEDAI QFIRQKRRGA
INSKQLTYLE KYRPKQRLRF KDPHTHKTRC CVM

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



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