

Recombinant human PRL-1/PTP4A1 protein

Catalog Number: ATGP0862

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-170aa

UniProt No.

Q93096

NCBI Accession No.

NP_003454.1

Alternative Names

Protein tyrosine phosphatase type IVA 1, HH72, PRL-1, PRL1, PTP(CAAX1), PTPCAAX17C1

PRODUCT SPECIFICATION

Molecular Weight

21.6 kDa (190aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

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

PTP4A1, also known as protein tyrosine phosphatase type IVA 1, is cell signaling molecule that plays regulatory roles in a variety of cellular processes. This protein is a unique nuclear PTP that is induced in regenerating liver and mitogen stimulated cells. It is primarily expressed in spleen, bone marrow, thymus, lymph nodes, T lymphocytes and tonsil and is overexpressed in tumor cell lines. Recombinant human PTP4A1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MARMNRPAPV EVTYKNMRF ITHNPTNATL NKFIEELKKY GVTTIVRVCE ATYDRTLVEK
EGIHVLDWPF DDGAPPSNQI VDDWLSLVKI KFREEPGCCI AVHCVAGLGR APVLVALALI EGGMKYEDAV QFIRQKRRGA
FNSKQLLYLE KYRPMRLRF KDSNGHRNNC

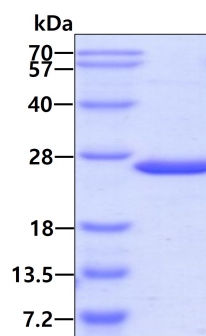
General References

Zeng Q., et al. (2000), J. Biol. Chem., 275: 21444-21452.

Jeong D.G., et al. (2005). J. Mol. Biol., 345: 401-413.

DATA

SDS-PAGE



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