

AR09802PU-L

Human PTP4A1 / PRL1 (1-170, His-tag) - Purified

Alternate names:

PRL-1, PTP(CAAXI), PTPCAAX1, Protein tyrosine phosphatase type IVA 1, Protein-tyrosine phosphatase 4a1, Protein-tyrosine phosphatase of regenerating liver 1

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q93096](#)

NCBI:

[NP_003454](#)

GeneID:

[7803](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Description:

Recombinant human PTP4A1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MARMNRPAPV EVTYKNMRFL ITHNPTNATL NKFIEELKKY
GVTTIVRVCE ATYDTTLVEK EGIHVLDPWF DDGAPPSNQI VDDWLSLVKI KFREEPGCCI
AVHCVAGLGR APVLVALALI EGGMKYEDAV QFIRQKRRGA FNSKQLLYLE KYRPMRLRF
KDSNGHRNNC

Molecular weight: 21.6 kDa (190aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

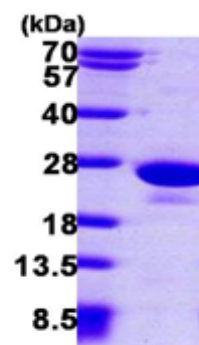
General Readings:

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

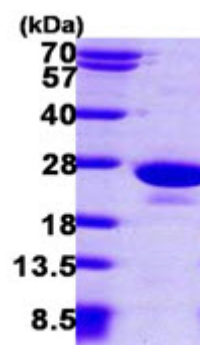
Jeong D.G., et al. (2005). J. Mol. Biol., 345: 401-413.

Pictures:

Recombinant human PTP4A1, 1-170aa,
His-tagged



15% SDS-PAGE (3ug)



15% SDS-PAGE (3ug)