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.



Amino acid Sequence

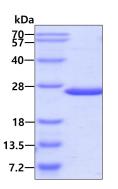
<MGSSHHHHHH SSGLVPRGSH> MARMNRPAPV EVTYKNMRFL ITHNPTNATL NKFIEELKKY GVTTIVRVCE ATYDTTLVEK EGIHVLDWPF DDGAPPSNQI VDDWLSLVKI KFREEPGCCI AVHCVAGLGR APVLVALALI EGGMKYEDAV QFIRQKRRGA FNSKQLLYLE KYRPKMRLRF KDSNGHRNNC

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.