Recombinant human PRL-2/PTP4A2 protein

Catalog Number: ATGP0705

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-167aa

UniProt No.
Q12974

NCBI Accession No.
NP_536316

Alternative Names
Protein tyrosine phosphatase type IVA 2 isoform 1, HH13, HH7-2, Hu-PP-1, OV-1, PRL-2, PRL2, ptp-IV1a, ptp-IV1b, PTP4A, PTPCAAX2, EC 3.1.3.48, HH13, HH7 2, HuPP 1, HuPP1, OV 1, OV1, PRL 2, PRL2, Protein tyrosine phosphatase 4a2, Protein tyrosine phosphatase of regenerating liver 2, Protein tyrosine phosphatase type IVA member 2 isoform 1, PTP (CAAXII), ptp IV1a, ptp IV1b, PTP4A, PTPCAAX2,

PRODUCT SPECIFICATION

Molecular Weight
23.2 kDa (203aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

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
Protein tyrosine phosphatase type IVA 2 isoform 1, also known as PTP4A2, belongs to a small class of the protein tyrosine phosphatase (PTP) family. PTP4A2 is localized to the early endosome that play regulatory roles in a variety of cellular processes. This protein was found to interact with the beta-subunit of Rab

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geranylgeranyltransferase II (beta GGT II), and thus may function as a regulator of GGT II activity. Overexpression of this gene in mammalian cells conferred a transformed phenotype, which suggested its role in tumorigenesis. Recombinant human PTP4A2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

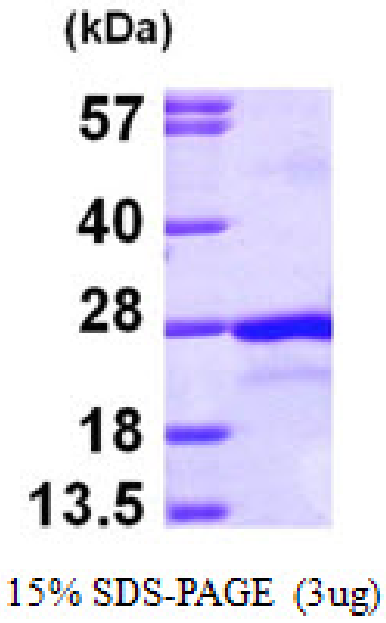
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMNRP APVEISYENM RFLITHNPTN ATLNKFTEEL KKYGVTTLVR VCDATYDKAP VEKEGIHVLD WPFDDGAPPP NQIVDDWLNL LKTKFREEPG CCVAVHCVAG LGRAPVLVAL ALIECGMKYE DAVQFIRQKR RGAFNSKQLL YLEKYRPKMR LRFRDTNGHC CVQ

General References

Si X., et al. (2001) J Biol chem. 246(35):32875-82.
Werner SR., et al. (2003) Cancer Lett. 202(2):201-11.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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