

Recombinant human PIM1 protein

Catalog Number: ATGP1997

PRODUCT INFORMATION

Expression system

E.coli

Domain

38-290aa

UniProt No.

P11309

NCBI Accession No.

NP_002639.1

Alternative Names

Non-specific serine/threonine protein kinase, PIM

PRODUCT SPECIFICATION

Molecular Weight

31.4 kDa (274aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 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

PIM1 belongs to the Ser/Thr protein kinase family, and PIM subfamily. This protein is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. It plays a role in signal transduction in blood cells, contributing to both cell proliferation and survival, and thus provides a selective advantage in tumorigenesis. Both the human and orthologous mouse genes have been reported to encode two isoforms (with preferential cellular localization) resulting from the use of alternative in-frame translation initiation codons, the upstream non-AuG (CuG) and downstream AuG codons. Recombinant

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human Pim1 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>YQVGPLLGS GGFGSVYSGI RVSDNLPVAI KHVEKDRISD WGELPNGTRV
PMEVLLKKV SSGFSGVIRL LDWFERPDSF VLILRPEPV QDLDFITER GALQEELARS FFWQVLEAVR HCHNCGVLHR
DIKDENILID LNRGELKLID FGSGALLKDT VYTDFDGTRV YSPPEWIRYH RYHGRSAAVW SLGILLYDMV CGDIPFEHDE
EIIRGQVFFR QRVSSCQHL IRWCLALRPS DRPTFEEIQN HPWM

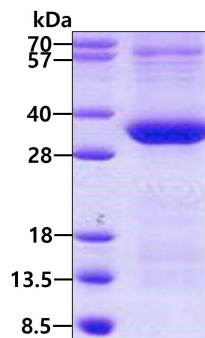
General References

Koike N., et al. (2000) FEBS Lett. 467:17-21

Ionov Y., et al. (2003) Anticancer Res. 23:167-178

DATA

SDS-PAGE



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