Recombinant Human PIM1, His-tagged

Cat. No. PIM1-7553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Pim1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	38-290aa
Antigen 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	31.4 kDa (274aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MYQVGPLLGS GGFGSVYSGI RVSDNLPVAI KHVEKDRISD WGELPNGTRV PMEVVLLKKV SSGFSGVIRL LDWFERPDSF

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	VLILERPEPV QDLFDFITER GALQEELARS FFWQVLEAVR HCHNCGVLHR DIKDENILID LNRGELKLID FGSGALLKDT VYTDFDGTRV YSPPEWIRYH RYHGRSAAVW SLGILLYDMV CGDIPFEHDE EIIRGQVFFR QRVSSECQHL IRWCLALRPS DRPTFEEIQN HPWM
Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	PIM1 pim-1 oncogene [Homo sapiens]
Official Symbol	PIM1
Synonyms	PIM1; pim-1 oncogene; PIM; serine/threonine-protein kinase pim-1; Oncogene PIM1; pim-1 kinase 44 kDa isoform; pim-1 oncogene (proviral integration site 1); proto-oncogene serine/threonine-protein kinase pim-1;
Gene ID	5292
mRNA Refseq	NM_001243186
Protein Refseq	NP_001230115
MIM	164960

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UniProt ID	P11309
Chromosome Location	6p21
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; C-MYB transcription factor network, organism-specific biosystem; IL-5 Signaling Pathway, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; Role of Calcineurin-dependent NFAT signaling in lymphocytes, organism-specific biosystem;
Function	ATP binding; manganese ion binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transcription factor binding;

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