

Catalog No.: RP03383LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	5292	P11309

No tag

PIM1; PIM; Serine/threonine-protein kinase pim-1

Pim-1 is a proto-oncogene which encodes for the serine/threonine kinase of the same name. The pim-1 oncogene was first described in relation to murine T-cell lymphomas, as it was the locus most frequently activated by the Moloney murine leukemia virus. Subsequently, the oncogene has been implicated in multiple human cancers, including prostate cancer, acute myeloid leukemia and other hematopoietic malignancies. Primarily expressed in spleen, thymus, bone marrow, prostate, oral epithelial, hippocampus and fetal liver cells, Pim-1 has also been found to be highly expressed in cell cultures isolated from human tumors. Pim-1 is mainly involved in cell cycle progression, apoptosis and transcriptional activation, as well as more general signal transduction pathways. Pim-1's role in oncogenic signalling has led to it becoming a widely studied target in cancer research, with numerous drug candidates under investigation which target it.

Source E. coli	Purification ≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.
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Calculated MW	Observed MW
36.2 kDa	28-38 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 μ m filtered solution in 50 mM HEPES, 150 mM NaCl, 5% glycerol. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

Recombinant Human PIM1 Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Ala14-Lys313) of Human PIM1 (Accession #P11309) fused with No tag.

The activity of PIM1 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

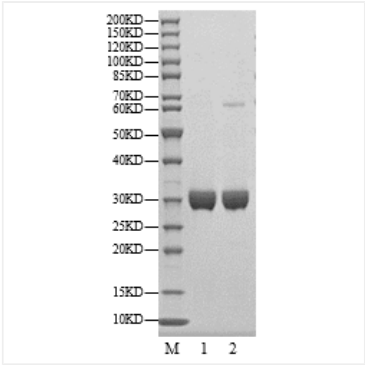
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μ L are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

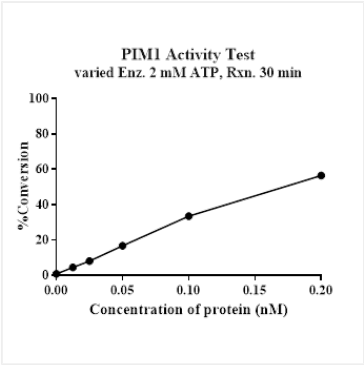
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Recombinant Human PIM1 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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