

Catalog No.: RP03429LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	415116	O86V86

N-GST

Synonyms
PIM3; pim-3; Serine/threonine-protein kinase pim-3

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

Calculated MW	Observed MW
62.4 kDa	50-60 kDa

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

Supplied as a 0.22 µm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 5% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Serine/threonine-protein kinase pim-3 is an enzyme that in humans is encoded by the PIM3 gene. PIM kinase is a serine/threonine kinase with known therapeutic importance. Further division of this family includes PIM-1, PIM-2, and PIM-3 kinases that share more than 80% sequence identity within their own sub-family, and less than 30% sequence identity with other kinases. Catalytic domain of human PIM-2 has 61% and 66% sequence identity with their PIM-1 and PIM-3 counterparts, respectively. PIM3 modulates signal transduction, expressed by EWS/ETS fusion protein. It belongs to Ewing's family tumor (EFTs) that promotes the growth of EFT cell lines by chromosomal translocation. It is over expressed in human hepatocellular carcinoma.

Recombinant Human PIM3 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Leu2-Leu326) of Human PIM3 (Accession #O86V86) fused with a N-GST tag.

The activity of PIM3 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.

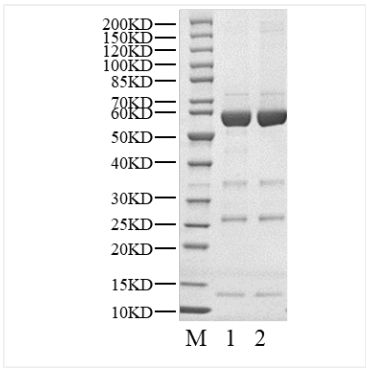
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

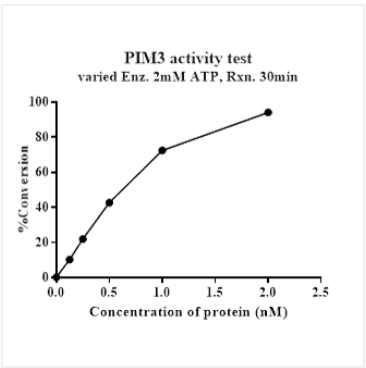
Aliquots below 10 µL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human PIM3 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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