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Recombinant Human PIM2 Kinase

Catalog No.: RP03346LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	11040	Q9P1W9

Tags
No tag

Synonyms
PIM2; Pim-2h; Serine/threonine-protein kinase pim-2

Product Information

Source	Purification
E. coli	≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
34.2 kDa	28-38 kDa

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

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM HEPES, 300 mM NaCl, 20% glycerol, 0.5 mM TCEP. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Contact

400-999-6126

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Background

Serine/threonine-protein kinase Pim-2 is encoded by the PIM2 (Proviral Integrations of Moloney virus 2) gene in human. PIM2 is expressed with high levels in the brain and lymphoid cells. Like PIM1, PIM2 shows a bi-lobal kinase architecture with a constitutively active closed conformation. The main chain of both molecules is identical with the exception of two flexible regions in the N-terminal lobe. PIM2 has roles in cell growth, proliferation, apoptosis, and regulation of signal transduction cascades. In clinical studies, PIM2 may be an important kinase in the phosphorylation of 4E-BP1, that is commonly found in cancers and contributes to the sustained translation of malignancy related transcripts. As a result, PIM2 may be an attractive target for acute myeloid leukemia.

Basic Information

Description
Recombinant Human PIM2 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Pro311) of Human PIM2 (Accession #Q9P1W9) fused with No tag.

Bio-Activity
The activity of PIM2 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.

Storage
Store at -70°C. This product is stable at ≤ -70°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.
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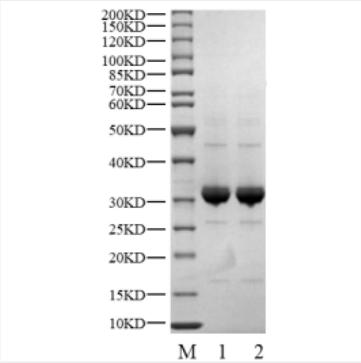
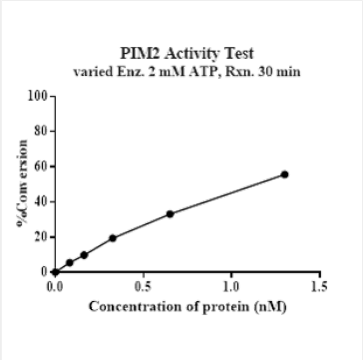
Validation Data



Recombinant Human PIM2 Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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