Recombinant Human PIM2 Kinase

Catalog No.: RP03346LQ

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Sequence Information

Species
Human

Gene ID
11040

Swiss Prot
Q9P1W9

Tags
No tag

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

Product Information

Source
E. coli

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

Calculated MW
34.2 kDa

Observed MW
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.

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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

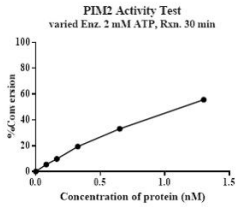
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

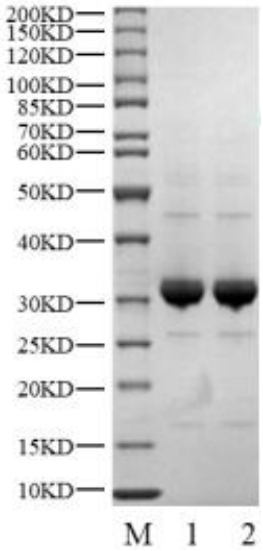
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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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.



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