

PIM2 recombinant protein

Recombinant PIM2 protein

CATALOG #
AAA60236

HOST
Baculovirus

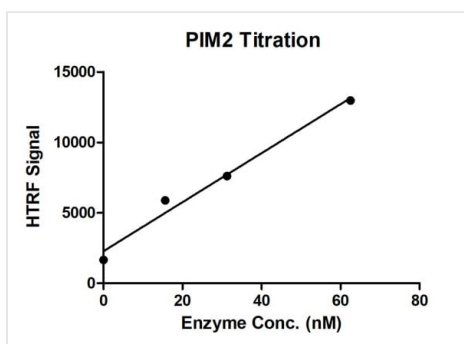
PRODUCT SYNONYMS

PIM2; Recombinant PIM2 protein; Pim-2 Proto-Oncogene; Serine/Threonine Kinase; Pim-2h; PIM2 recombinant protein

PRODUCT SPECIFICATIONS

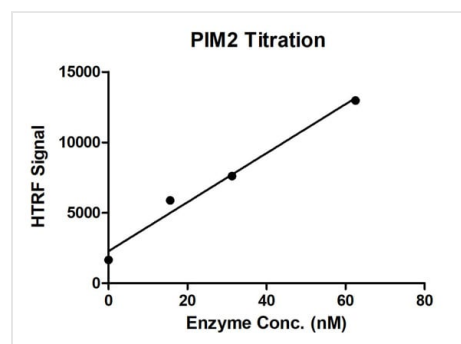
Host	Baculovirus
Form/Format	Recombinant PIM2 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant PIM2 protein was expressed in baculovirus expression system as the full length protein (accession number NP_006866.2) with a N-terminal DYKDDDDK tag.
Notes	This product was manufactured as described in Protein Details. Where possible, We has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for a given product is shown on the lot-specific Technical Data Sheet.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



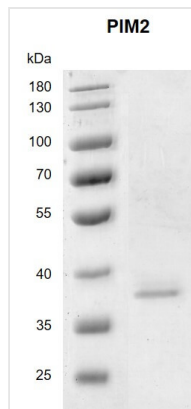
Application Data

HTRF assay for PIM2 activity 1 uM STK S3 substrate was incubated with different concentrations of PIM2 protein in a 10 ul reaction system containing 1×Enzymatic Buffer, 5 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The 10 ul detection reagents containing STK antibody (1:2) and SA-XL665 (1:100) diluted with 1× Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant PIM2 protein 10% SDS-PAGE with Coomassie staining MW: 35.5 kDa Purity: >95%

ADDITIONAL INFORMATION

Related Product Information for PIM2 recombinant protein	Background: PIM2 (Pim-2 Proto-Oncogene, Serine/Threonine Kinase) is a Protooncogene with serine/threonine kinase activity involved in cell survival and cell proliferation. Its oncogenic activity exerts through: the regulation of MYC transcriptional activity, the regulation of cell cycle progression, the regulation of cap-dependent protein translation and through survival signaling by phosphorylation of a pro-apoptotic protein, BAD. Phosphorylation of MYC leads to an increase of MYC protein stability and thereby an increase transcriptional activity. The stabilization of MYC exerted by PIM2 might explain partly the strong synergism between these 2 oncogenes in tumorigenesis. Pim2 regulates cap-dependent protein translation in a mammalian target of rapamycin complex 1 (mTORC1)-independent manner and in parallel to the PI3K-Akt pathway. It also mediates survival signaling through phosphorylation of BAD, which induces release of the antiapoptotic protein Bcl-X(L)/BCL2L1. PIM2 promotes cell survival in response to a variety of proliferative signals via positive regulation of the I-kappa-B kinase/NF-kappa-B cascade; this process requires phosphorylation of MAP3K8/COT. It promotes growth factor-independent proliferation by phosphorylation of cell cycle factors such as CDKN1A and CDKN1B and involved in the positive regulation of chondrocyte survival and autophagy in the epiphyseal growth plate. Diseases associated with PIM2 include Colorectal Adenocarcinoma and Lymphoma.
Product Categories/Family for PIM2 recombinant protein	Recombinant Proteins; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	42821112
NCBI GeneID	11040
NCBI Accession #	NP_006866.2
NCBI GenBank Nucleotide #	NM_006875.3
UniProt Accession #	Q9P1W9; Q99739; A8K4G6
Molecular Weight	34,190 Da
NCBI Official Full Name	serine/threonine-protein kinase pim-2
NCBI Official Synonym Full Names	Pim-2 proto-oncogene, serine/threonine kinase
NCBI Official Symbol	PIM2
NCBI Protein Information	serine/threonine-protein kinase pim-2; pim-2h; pim-2 oncogene; serine/threonine protein kinase pim-2; proto-oncogene Pim-2 (serine threonine kinase)
UniProt Protein Name	Serine/threonine-protein kinase pim-2
UniProt Gene Name	PIM2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pim2-recombinant-protein-baculovirus/60236>