Recombinant Human PIM2 Protein (M1-P311), Tag Free

Cat. No. PIM2-0921H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIM2(M1-P311 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	M1-P311
Description	Proto-oncogene with serine/threonine kinase activity involved in cell survival and cell proliferation. Exerts its oncogenic activity 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. Regulates cap-dependent protein translation in a mammalian target of rapamycin complex 1 (mTORC1)-independent manner and in parallel to the PI3K-Akt pathway. Mediates survival signaling through phosphorylation of BAD, which induces release of the anti-apoptotic protein Bcl-X(L)/BCL2L1. 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. Promotes growth factor-independent proliferation by phosphorylation of cell cycle factors such as CDKN1A and CDKN1B. Involved in the positive regulation of chondrocyte survival and autophagy in the epiphyseal

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	growth plate.
Form	Liquid
Endotoxin	< 0.01 EU per μg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	PIM2 pim-2 oncogene [Homo sapiens (human)]
Official Symbol	PIM2
Synonyms	PIM2; pim-2 oncogene; serine/threonine-protein kinase pim-2; pim-2h; serine/threonine protein kinase pim-2; proto-oncogene Pim-2 (serine threonine kinase);
Gene ID	11040
mRNA Refseq	NM_006875

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Protein Refseq	NP_006866
MIM	300295
UniProt ID	Q9P1W9

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