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Pim 1, Active recombinant protein

Pim, Serine/threonine-protein kinase Pim-1
Catalog # PBV11317r

Specification

Pim 1, Active recombinant protein - Product info

Primary Accession	P11309
Concentration	0.1
Calculated MW	62.0 kDa KDa

Pim 1, Active recombinant protein - Additional Info

Gene ID	5292
Gene Symbol	PIM1

Other Names
Pim, Serine/threonine-protein kinase Pim-1

Source	Baculovirus (Sf9 insect cells)
Assay&Purity	SDS-PAGE; ≥90%
Assay2&Purity2	HPLC;
Recombinant	Yes

Format
Liquid

Storage
-80°C; Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

Pim 1, Active recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Pim 1, Active recombinant protein - Images

Pim 1, Active recombinant protein - Background

The proto-oncogene Pim1 belongs to a family of serine/threonine protein kinases that are highly conserved through evolution in multicellular organisms. Originally identified from Moloney murine leukemia virus induced T-cell lymphomas in mice, Pim1 is involved in the control of cytokine-mediated cell proliferation, differentiation and survival of lymphoid and myeloid cells as

well as others. Expression of Pim1 can be stimulated by a variety of growth factors and is regulated at four different levels: transcriptional, post-transcriptional, translational and post-translational. Accumulating data support that the expression of Pim1 is mediated through activation of the JAK/STAT pathway. Some of the substrates of Pim1 include p21 Cip1, nuclear mitotic appartus protein, PTP-U2S and Socs-1. Recently, Pim1 has been shown to enhance the activities of p100, c-Myb and Cdc 25a and in part this might explain reported effects of Pim1 on mitogenesis. Pim1 interacts with c-Myb via the DNA binding domain and regulates its transcriptional activity.

Pim 1, Active recombinant protein - References

Reeves R.,et al.Gene 90:303-307(1990).
Zakut-Houri R.,et al.Gene 54:105-111(1987).
Domen J.,et al.Oncogene Res. 1:103-112(1987).
Meeker T.C.,et al.J. Cell. Biochem. 35:105-112(1987).
Xie Y.,et al.Oncogene 25:70-78(2006).