

## Recombinant Human Pim-1 Oncogene GST Active

<b>Catalog No.</b>	CRP107A CRP107B	<b>Quantity:</b>	5 µg 10 µg
<b>Description:</b>	<p>Recombinant full length human Pim1 containing N-terminal GST tag was expressed by baculovirus in Sf9 insect cells.</p> <p>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 mouse 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 apparatus 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.</p>		
<b>Concentration:</b>	0.1 mg/ml		
<b>Protein Accession No:</b>	NM_002648		
<b>Source:</b>	Sf9 insect cells		
<b>Formulation:</b>	Recombinant protein in storage buffer (50 mM Tris-HCl + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol; pH 7.5).		
<b>Purity:</b>	1 µg of Pim1 protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >90% purity of the Pim1 product, and the band was at ~62 kDa (Fig. 2)		
<b>Specific Activity:</b>	316 nmol/min/mg: 316 nmol phosphate incorporated into the S6K substrate peptide per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP (0.83 µCi/assay). See QA/QC section for details.		
<b>Storage &amp; Stability:</b>	Store product frozen at or below -80°F. Stable for 1 year at -80°F as undiluted stock. Aliquot to avoid repeated thawing and freezing.		

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