Data sheet

IFTA AG
Certified QMS according to
DIN EN ISO 9001
Reg. No. IC 03214 034

Jena Bioscience

PIM1, active, dephosphorylated
$PIM1^{His}$, active, dephosphorylated
human, recombinant, *E. coli*

Cat. No.	Amount
PR-237	20 µg

For *in vitro* use only
Quality guaranteed for 12 months
Store at -80°C

Avoid freeze / thaw cycles

Description
Human PIM1 plays multiple roles in tumorigenesis. It promotes early transformation, cell proliferation and cell survival. In addition it may play a role in angiogenesis and vasculogenesis as a downstream effector of the VEGF-A/Flk1 pathway. PIM1 expression is correlated with tumor aggressiveness and is a marker for poor prognosis. PIM1 expression can be predictive of tumor outcome following chemotherapy and surgery and has been correlated with the enhanced metastatic potential of the tumor.

Form
Supplied in 50 mM Tris-HCl pH 7.5, 500 mM NaCl and 1 mM DTT.

Activity
>500,000 U/mg (1 Unit is defined as 1 picomole phosphate transferred to synthetic peptide KKRNRTLTV per min at 30 °C)

Molecular Weight
37.5 kDa

Application
Suitable for crystallization because it is purified by Ni-NTA agarose chromatography, ion exchange chromatography and gel filtration.

Selected References:

Shah *et al.* (2008) Potential roles for the PIM1 kinase in human cancer – A molecular and therapeutic appraisal. *Eur. J. Cancer.* **44**:2144.
Bullok *et al.* (2005) Structure and substrate specificity of the Pim1 kinase. *J. Biol. Chem.* **280**:41675.