

PIM1, 38-290aa, Human, His tag, E.coli

Cat.NO.: TP03407

3th Edition

Synonyms:Non-specific serine/threonine protein kinase, PIM

Description:PIM1 belongs to the Ser/Thr protein kinase family, and PIM subfamily. This protein is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. It plays a role in signal transduction in blood cells, contributing to both cell proliferation and survival, and thus provides a selective advantage in tumorigenesis. Both the human and orthologous mouse genes have been reported to encode two isoforms (with preferential cellular localization) resulting from the use of alternative in-frame translation initiation codons, the upstream non-AUG (CUG) and downstream AUG codons. Recombinant human Pim1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight:31.4 kDa (274aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMYQVGPLLGGGGFSGVYSGIRVSDNLPVAIKHVEKDRISDWGELPNGTRVPMEV
VLLKKVSSGFSGVIRLLDWFERPDSFVLILRPEPVQDLDFITERGALQEELARSFFWQVLEAVRHCHNCGVLHRD
IKDENILIDLNRGELKLIDFGSGALLKDTVYTDGTRVYSPPEWIRYHRYHGRSAAVWSL GILLYDMVCGDIPFEHD
EEIRGQVFFRQRVSSECQHLIRWCLALRPSDRPTFEEIQNHPWM

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.