
Product Data Sheet

Product Name: PIM1 Human
 Cat. No.: GP24185
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PIM; Serine/threonine-protein kinase pim-1; PIM1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MYQVGPLLGS GGFGSVYSGI RVSDNLPVAI KHVEKDRISD WGELPNGTRV PMEVLKLVK SSGFSGVIRL LDWFERPDSF VLILERPEPV QDLDFDITER GALQEELARS FFWQVLEAVR HCHNCGVLHR DIKDENILID LNRGELKLID FGSGALLKDT VYTDGTRV YSPPEWIRYH RYHGRSAAVW SLGILLYDMV CGDIPFEHDE EIIRGQVFFR QRVSSSECQHL IRWCLALRPS DRPTFEEIQN HPWM.		
Formulation	PIM1 protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

PIM1, which is a part of the Ser/Thr protein kinase family and PIM subfamily, is expressed primarily in B-lymphoid and myeloid cell lines, and is overexpressed in hematopoietic malignancies and in prostate cancer. PIM1 functions as Proto-oncogene with serine/threonine kinase activity involved in cell survival and cell proliferation, consequently providing a selective advantage in tumorigenesis. Both human and orthologous mouse genes have been reported to encode two isoforms resulting from the use of alternative in-frame translation initiation codons, the upstream non-AUG (CUG) and downstream AUG codons.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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PIM1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 274 amino acids (38-290 a.a.) and having a molecular mass of 31.4kDa. PIM1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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