
Product Data Sheet

Product Name: PIN1 Mouse
 Cat. No.: GP22091
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1 (EC:5.2.1.8); Peptidyl-prolyl cis-trans isomerase Pin1; PPIase Pin1; Pin1; PIN1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMADDEEKL PPGWEKRMSR SSGRVYYFNH ITNASQWERP SGGSTVGGSS KNGQGEPAKV RCSHLLVKHS QSRRPSSWRQ EKITRSKEEA LELINGYIQK IKSGEEDFES LASQFSDCSS AKARGDLGPF SRGQMQKPF E DASFALRTGE MSGPVFTDSG IHILRTE.		
Formulation	PIN1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) which interacts with NIMA and essential for cell cycle regulation Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity is necessary for Ess1/Pin1 function in yeast. Pin1 is thus an essential PPIase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Substrates of Pin1 include the mitotic regulators (Cdc25 phosphatase and NIMA, PLK I, Wee, and Myt1 kinases), several transcription factors like b-Catenin, c-Jun, and the tumor suppressor protein p53, and some specific proteins like the RNA Pol II, the cytoskeleton protein tau, and the G1/S protein Cyclin D1.

Biological Activity

Specific activity is > 1,200 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37°C in Tris-HCl pH 8.0 using chymotrypsin.

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

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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

PIN1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 188 amino acids (1-165 a.a) and having a molecular mass of 20.8kDa. PIN1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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