

Pin1, 1-165aa, Mouse, His-tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03410

3th Edition

Synonyms:Peptidyl-prolyl cis-trans isomerase NIMA-interacting1, 0610025L01Rik, D9Bwg1161e

Description:Pin1, also known as peptidyl-prolyl cis-trans isomerase NIMA-interacting1, is nuclear PPlase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. Pin1 is thus an essential PPlase 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 β -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. Recombinant mouse PIN1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. In Phosphate buffered saline (pH7.4) containing 10% glycerol

Molecular Weight:20.8 kDa (188aa) Confirmed by MALDI-TOF

Sequences:

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Absorbance 280nm)

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.