abcam

Product datasheet

Recombinant human Pin1 protein ab51230

1 Image

Description

Product name	Recombinant human Pin1 protein
Biological activity	Specific activity is > 330 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1 µmole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin. **Activity Assay** 1. Prepare 180ul assay buffer into a suitable container: 133mM Tris-HCl, pH8.0, 5.5nM chymotrypsin, and 0.5ug of Pin1 recombinant protein. For blanks, load 133mM Tris-HCl, pH8.0 and 5.5nM chymotrypsin. (Enzyme dilution buffer: 133mM Tris-HCl, pH8.0) 2. Add 20ul of 5mM suc-AAFP-pNA to each well. (Substrate has to be dissolved in buffer of 460mM Lithium chloride in 3mM 2,2,2-Trifluoroethnol) 3. Incubated at room temperature for 10minutes. 4. Record the increase in A405 nm for 30 minutes at 37°C. Note: Specific activity is lot specific and is always > 330 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1 µmole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin. Please inquire about lot specific activity
Purity	> 95 % SDS-PAGE.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MADEEKLPPGWEKRMSRSSGRVYYFNHITNASQWER PSGNSSSGGKNGQG EPARVRCSHLLVKHSQSRRPSSWRQEKITRTKEEALE LINGYIQKIKSGE EDFESLASQFSDCSSAKARGDLGAFSRGQMQKPFE DASFALRTGEMSGPV FTDSGIHIILRTE

Specifications

Our Abpromise guarantee covers the use of **ab51230** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	Liquid

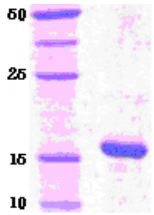
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.50 Constituents: 0.077% DTT, 0.316% Tris HCl, 20% Glycerol, 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Essential PPIase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Catalyzing pSer/Thr-Pro cis/trans isomerizations.
Sequence similarities	Contains 1 PpiC domain. Contains 1 WW domain.
Domain	The WW domain is required for the interaction with STIL and KIF20B.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus.

Images



SDS-PAGE - Recombinant human Pin1 protein (ab51230)

ab51230 run on a 14% SDS-PAGE gel with molecular weight markers.

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