

RP00015

Leader in Biomolecular Solutions for Life Science



Recombinant Human PIN1 Protein

Catalog No.: RP00015

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	5300	Q13526

Tags

No tag

Synonyms

PIN1;DOD;UBL5

Background

Peptidyl-prolyl cis/trans isomerases (PPIases) catalyze the cis/trans isomerization of peptidyl-prolyl peptide bonds. This protein is a nucleus protein which specifically binds to phosphorylated ser/thr-pro motifs to catalytically regulate the post-phosphorylation conformation of its substrates. The conformational regulation catalyzed by this PPIase has a profound impact on key proteins involved in the regulation of cell growth, genotoxic and other stress responses, the immune response, induction and maintenance of pluripotency, germ cell development, neuronal differentiation, and survival. This enzyme also plays a key role in the pathogenesis of Alzheimer's disease and many cancers.

Product Information

Source

<I>E. coli</I>

Purification

> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Basic Information

Description

Recombinant Human PIN1 Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Met1-Glu163) of human PIN1 (Accession #NP_006212.1).

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CTNNB1 Protein at 2 μg/mL (100 μL/well) can bind PIN1 with a linear range of 7.8-164.3 ng/mL.

Storage

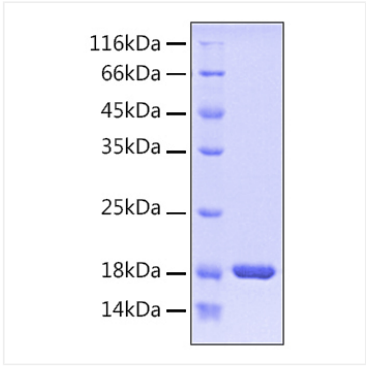
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

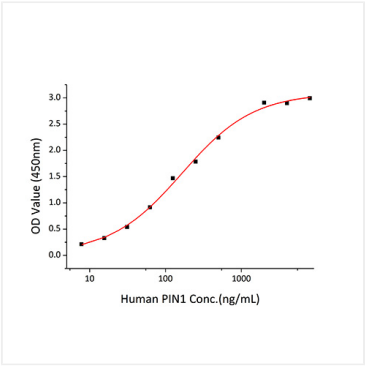


www.abclonal.com

Validation Data



Recombinant Human PIN1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18 kDa.



Immobilized Recombinant Human CTNNB1 Protein at 2 µg/mL (100 µL/well) can bind PIN1 with a linear range of 7.8-164.3 ng/mL.