RP00015

Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Recombinant Human PIN1 Protein

Catalog No.: RP00015 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	5300	Q13526

Tags
No tag

Synonyms
PIN1;DOD;UBL5

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 votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

www.abclonal.com

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.

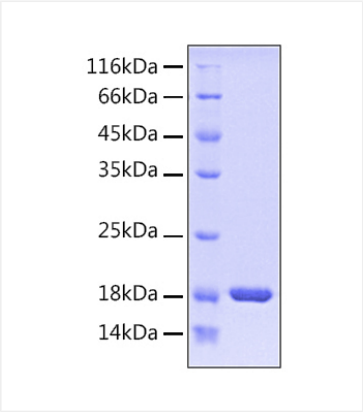
Basic Information

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).

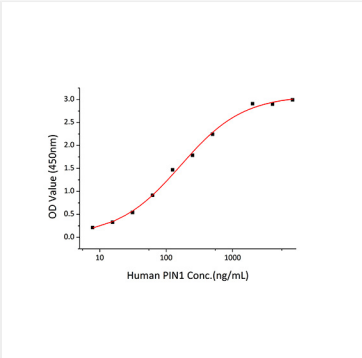
Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Human CTNNB1 Protein at 2 μg/mL (100 μL/well) can bind PIN1 with a linear range of 7.8-164.3 ng/mL.

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
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.

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.