Recombinant Human PIN1 Protein

Catalog No.: RP00015

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Sequence Information

Species
Human

Gene ID
5300

Swiss Prot
Q13526

Tags
No tag

Synonyms
PIN1,DOD,UBL5

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
18.24 kDa

Observed MW
18 kDa

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 *E. coli* expression system. The target protein is expressed with sequence (Met1-Glu163) of human PIN1 (Accession #NP_006212.1).

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

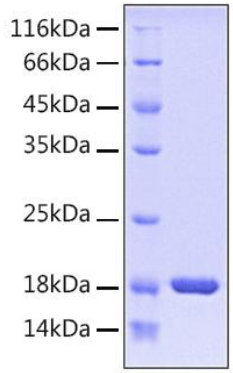
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

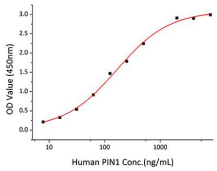
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human PIN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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.

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