Recombinant Human PIN1 Protein

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Catalog No.: RP00015 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5300 013526

Tags No tag

Synonyms PIN1;DOD;UBL5

Product Information

Source Purification

E. coli ≥ 95 % as
determined by SDSPAGE.

Calculated MW Observed MW

18.24 kDa 18 kDa

Endotoxin

< 0.1 EU/ μ g 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.

Contact

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Background

Peptidyl-prolyl cis/trans isomerases (PPlases) 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 PPlase 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).

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.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

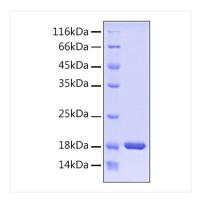
Avoid repeated freeze/thaw cycles.

Operational Notes

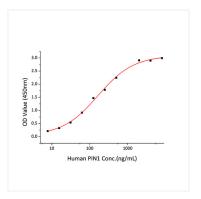
For your safety and health, please wear a lab coat and disposable gloves for handling.

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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 μ g/mL (100 μ L/well) can bind PIN1 with a linear range of 7.8-164.3 ng/mL.