

# Recombinant Human Cyclophilin A Protein (His Tag)

Catalog Number:PKSH031608



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

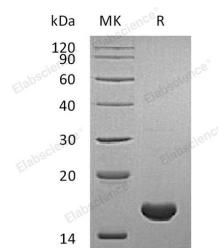
## Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Peptidyl-prolyl cis-trans isomerase A;PPIase A;Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;PPIA;CYPA |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Met 1-Glu 165  |
| <b>Accession</b>                   | P62937   |
| <b>Calculated Molecular Weight</b> | 19.4 kDa   |
| <b>Observed molecular weight</b>   | 19 kDa   |
| <b>Tag</b>                         | C-His  |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 97 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | Please contact us for more information.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile 50mM Tris, 150mM NaCl, 20% glycerol, pH 7.7. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.  |
|                       | Please refer to the specific buffer information in the printed manual.  |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 97 % as determined by reducing SDS-PAGE.

## Background

Peptidyl-prolyl cis-trans isomerase A; also known as PPIase A; Rotamase A; Cyclophilin A; Cyclosporin A-binding protein; PPIA and CYPA; is a cytoplasm protein which belongs to the cyclophilin-type PPIase family and PPIase A subfamily. Cyclophilins (CyPs) are a family of proteins found in organisms ranging from prokaryotes to humans. These molecules exhibit peptidyl-prolyl isomerase activity; suggesting that they influence the conformation of proteins in cells. PPIA / Cyclophilin A accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. PPIA / Cyclophilin A is secreted by vascular smooth muscle cells in response to inflammatory stimuli; and could thus contribute to atherosclerosis. It is not essential for mammalian cell viability. PPIA / Cyclophilin A

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can interact with several HIV proteins; including p55 gag; Vpr; and capsid protein; and has been shown to be necessary for the formation of infectious HIV virions.

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