

Recombinant Human PPIase/FKBP7 Protein (aa 1-218, His Tag)



Catalog Number:PKSH030674

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

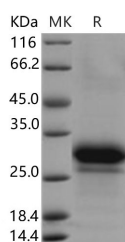
Description

| | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms | Peptidyl-Prolyl Cis-Trans Isomerase FKBP7;PPIase FKBP7;23 kDa FK506-Binding Protein;23 kDa FKBP;FKBP-23;FK506-Binding Protein 7;FKBP-7;Rotamase;FKBP7;FKBP23 |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Met 1-Gln218 |
| Accession | Q9Y3C6 |
| Calculated Molecular Weight | 23.8 kDa |
| Observed molecular weight | 27-30 kDa |
| Tag | C-His |

Properties

| | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | 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. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from sterile PBS, pH 7.4 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. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

PPIase is a member of the immunophilin protein family. It also belongs to the cyclophilin-type PPIase family; PPIL3 subfamily. PPIase contains 1 PPIase cyclophilin-type domain. Members of the immunophilin protein family play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. It has a very high substrate specificity for the four-residue peptide Ala-Ala-Pro-Phe only when the proline peptide bond is in the trans state. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with

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multiple intracellular calcium release channels; and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse; deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium.

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