# Recombinant PPIG protein (His tag)

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| **Catalog Number** | 538019 |
| **Synonyms** | PPIase G; Peptidyl-prolyl isomerase G; CASP10; Clk-associating RS-cyclophilin; CARS-Cyp; CARS-cyclophilin; SR-cyclophilin; SR-cyp; SRcyp; Cyclophilin G; Rotamase G |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q13427 |
| **Molecular Weight** | Predictes a molecular mass of 21.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band. |

## Product Information

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| **Sequence Region** | 1-181 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1-181 aa (Q13427) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | This product is a high-quality recombinant fragment of human Peptidyl-prolyl cis-trans isomerase G (PPIase G), covering amino acids 1-181. It includes the complete PPIase cyclophilin-type domain, making it an ideal tool for investigating protein folding, isomerase activity, and related molecular mechanisms in a purified, functional form.<br>Peptidyl-prolyl cis-trans isomerase G (PPIase G) is an enzyme that catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides, thereby assisting in protein folding processes. It may also contribute to the folding, transport, and assembly of proteins and has been implicated in the regulation of pre-mRNA splicing. The protein is localized to the nucleus matrix and nuclear speckles, where it colocalizes with RNA splicing factors, underscoring its potential role in nuclear functions and RNA processing. |