# Recombinant PPIL4 protein (His tag)

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| **Catalog Number** | 549853 |
| **Synonyms** | PPIase; Cyclophilin-like protein PPIL4; Rotamase PPIL4 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8WUA2 |
| **Molecular Weight** | Predictes a molecular mass of 37.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band. |

## Product Information

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| **Sequence Region** | 1-318 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 1-318 aa (Q8WUA2) 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** | Recombinant Human Peptidyl-prolyl cis-trans isomerase-like 4 (PPIase) fragment (amino acids 1-318) is a high-purity protein designed for studying PPIase activity and RNA recognition. This fragment fully encompasses the functional PPIase cyclophilin-type and RRM domains, making it an ideal tool for investigating protein folding mechanisms and domain-specific interactions in nuclear processes. Peptidyl-prolyl cis-trans isomerase-like 4 (PPIase) is an enzyme that accelerates protein folding by catalyzing the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. This activity is crucial for proper protein structure and function. The full-length protein is localized to the nucleus, where it likely participates in nuclear protein maturation and regulatory processes. The recombinant fragment (1-318) retains key functional domains, enabling focused research on its isomerase and RNA-binding capabilities without interference from other regions of the protein. |