# Recombinant KPRB protein (His tag)

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| **Catalog Number** | 541809 |
| **Synonyms** | PRPP synthase-associated protein 2; 41 kDa phosphoribosypyrophosphate synthetase-associated protein; PAP41 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | O60256 |
| **Molecular Weight** | Predictes a molecular mass of 25.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band. |

## Product Information

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| **Sequence Region** | 1-213 |
| **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 1-213 aa (O60256) 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 Phosphoribosyl Pyrophosphate Synthase-Associated Protein 2 (PRPSAP2) fragment (residues 1-213) is a high-purity protein designed for structural and biochemical studies. This 213-amino acid fragment represents a stable, soluble domain ideal for investigating the regulatory mechanisms of 5-phosphoribose 1-diphosphate synthesis.<br>The full-length PRPSAP2 protein, encoded by the PRPSAP2 gene in Homo sapiens, functions as a negative regulator in 5-phosphoribose 1-diphosphate (PRPP) synthesis. PRPP serves as a fundamental precursor in nucleotide biosynthesis and various metabolic pathways. By modulating PRPP synthase activity, PRPSAP2 plays a crucial role in maintaining cellular nucleotide homeostasis and metabolic balance. The selected fragment (1-213) was computationally optimized to preserve structural integrity while enhancing experimental utility for research applications. |