# Recombinant PEX13 protein (His tag)

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| **Catalog Number** | 540923 |
| **Synonyms** | Peroxin-13 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q92968 |
| **Molecular Weight** | Predictes a molecular mass of 11.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band. |

## Product Information

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| **Sequence Region** | 255-341 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, 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 255-341 aa (Q92968) 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 Peroxisomal membrane protein PEX13 (Peroxin-13) fragment (amino acids 255-341) is a high-purity protein designed for investigating the SH3 domain's role in peroxisomal protein import. This 87-amino acid fragment serves as an essential tool for studying domain-specific interactions and mechanisms in cellular trafficking and organelle biogenesis.<br>Peroxisomal membrane protein PEX13 is a critical component of the PEX13-PEX14 docking complex, which functions as a translocon channel for importing peroxisomal cargo proteins bound to the PEX5 receptor. Located in the peroxisome membrane as a multi-pass membrane protein, PEX13 facilitates the translocation of both PTS1- and PTS2-type cargo proteins into the peroxisome matrix. The full-length protein associates with PEX14 in the cytosol, enabling receptor insertion and cargo delivery, underscoring its importance in peroxisome function and cellular metabolism. |