# Recombinant VP13A protein (His tag)

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| **Catalog Number** | 545751 |
| **Synonyms** | Chorea-acanthocytosis protein; Chorein; Vacuolar protein sorting-associated protein 13A |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q96RL7 |
| **Molecular Weight** | Predictes a molecular mass of 50.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band. |

## Product Information

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| **Sequence Region** | 1-414 |
| **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 1-414 aa (Q96RL7) 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 VPS13A Fragment (aa 1-414) is a high-purity protein designed for studying the N-terminal chorein domain of the VPS13A protein, a key mediator of interorganelle lipid transfer and membrane contact site formation.<br>VPS13A (Chorein) is a crucial lipid transfer protein that facilitates phospholipid exchange between membranes at organelle contact sites, particularly between the endoplasmic reticulum and mitochondria. This protein localizes to multiple membrane compartments including mitochondrial outer membrane, endoplasmic reticulum, endosomes, lysosomes, and lipid droplets, where it regulates lipid droplet size and motility while supporting efficient lysosomal protein degradation. VPS13A dysfunction is associated with chorea-acanthocytosis, highlighting its importance in cellular lipid homeostasis and neurological function. |