# Recombinant VIT5 protein (His tag)

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| **Catalog Number** | 534724 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | P06125 |
| **Gene ID** | 180630 |
| **Molecular Weight** | Predictes a molecular mass of 11.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band. |

## Product Information

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| **Sequence Region** | 1519-1603 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 1519-1603 aa (P06125) 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 Vitellogenin-5 (vit-5) fragment from Caenorhabditis elegans, corresponding to residues 1519–1603. This 85-amino acid fragment is a stable, soluble unit ideal for structural and biochemical studies, supporting research on nutrient transport and lifespan regulation.<br>Vitellogenin-5 is a precursor to egg-yolk proteins in Caenorhabditis elegans, providing essential nutrients during embryonic development. It is secreted and, along with other vitellogenins, may modulate lifespan by inducing autophagy and lysosomal lipolysis, highlighting its role in developmental biology and aging processes. |