# Recombinant ZIP4 protein (His tag)

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| **Catalog Number** | 533837 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | H2L0N3 |
| **Gene ID** | 171900 |
| **Molecular Weight** | Predictes a molecular mass of 15.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band. |

## Product Information

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| **Sequence Region** | 207-318 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, 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 207-318 aa (H2L0N3) 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** | The Transcription factor zip-4 (zip-4) fragment (residues 207-318) is a high-quality recombinant protein derived from Caenorhabditis elegans, encompassing the full bZIP functional domain. This product is an essential tool for researchers studying transcriptional regulation, mitochondrial stress responses, and host-pathogen interactions, offering targeted insights into domain-specific mechanisms.<br>Transcription factor zip-4, encoded by the zip-4 gene in Caenorhabditis elegans, functions as a transcription factor that binds to promoter and enhancer regions of target genes. It plays a critical role in responding to mitochondrial damage and provides protection during infections by Gram-negative bacteria such as Pseudomonas aeruginosa. The protein is localized to the nucleus, where it regulates gene expression involved in cellular defense and stress adaptation. This fragment, spanning residues 207-318, includes the complete bZIP domain, enabling focused investigation into its DNA-binding and regulatory functions. |