# Recombinant EAA3 protein (His tag)

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| **Catalog Number** | 535552 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | Q21353 |
| **Gene ID** | 177882 |
| **Molecular Weight** | Predictes a molecular mass of 10.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band. |

## Product Information

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| **Sequence Region** | 104-181 |
| **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 104-181 aa (Q21353) 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 fragment of Putative sodium-dependent excitatory amino acid transporter glt-3 from Caenorhabditis elegans, encompassing residues 104-181. This 78-amino acid fragment was computationally selected for optimal stability and solubility, making it ideal for structural studies and biochemical characterization of this important membrane transporter protein.<br>The full-length Putative sodium-dependent excitatory amino acid transporter glt-3 (encoded by the glt-3 gene) is a multi-pass membrane protein localized to cellular membranes. As a sodium-dependent transporter, it belongs to a class of proteins responsible for the cellular uptake of excitatory amino acids, which play crucial roles in neuronal signaling and metabolism. The membrane localization and multi-pass structure indicate its function in transporting substrates across cellular membranes, though specific functional details for this particular isoform require further experimental validation. |