# Recombinant CED2 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 531782 |
| **Synonyms** | Cell-corpse engulfment protein CED-2 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | Q9NHC3 |
| **Gene ID** | 176968 |
| **Molecular Weight** | Predictes a molecular mass of 21.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 1-175 |
| **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 1-175 aa (Q9NHC3) were fused with 6His tag. |

## Storage & Handling

| | |
|---|---|
| **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

| | |
|---|---|
| **Description** | Recombinant Cell Death Abnormality Protein 2 (CED-2) Fragment (aa 1-175) from Caenorhabditis elegans. This high-purity fragment encompasses the complete SH2 domain (aa 14-115), providing an essential tool for studying cell migration, corpse engulfment mechanisms, and neuronal protection pathways in research applications.<br>Cell Death Abnormality Protein 2 (CED-2) is a crucial protein in Caenorhabditis elegans that plays multiple essential roles in cellular processes. It is required for cell migration and the engulfment of cell corpses during development, though interestingly, it is not involved in the initiation of programmed cell death/apoptosis itself. The protein has demonstrated importance in the migration of gonadal distal tip cells and serves a protective function for dopaminergic neurons against oxidative stress-induced degeneration. The full-length protein's multifaceted functions make it a valuable subject for studying cellular migration mechanisms, phagocytosis processes, and neuroprotective pathways in model organisms. |