# Recombinant C2D1 protein (His tag)

| | |
|---|---|
| **Catalog Number** | 536079 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | Q9U2M8 |
| **Gene ID** | 173244 |
| **Molecular Weight** | Predictes a molecular mass of 38.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band. |

## Product Information

| | |
|---|---|
| **Sequence Region** | 449-781 |
| **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 449-781 aa (Q9U2M8) 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 Coiled-coil and C2 domain-containing protein 1-like (CCCT-1) fragment (449-781) from Caenorhabditis elegans. This 333-amino acid fragment includes the complete C2 domain (605-741), offering a focused tool for investigating domain-specific functions in cellular processes.<br>The full-length Coiled-coil and C2 domain-containing protein 1-like, encoded by the ccct-1 gene in Caenorhabditis elegans, is characterized by structural motifs including coiled-coil regions and a C2 domain. C2 domains are known to mediate calcium-dependent phospholipid binding and play roles in membrane trafficking, signal transduction, and vesicle fusion in various proteins. While specific functional and subcellular localization details for this protein are not fully characterized, the presence of these domains suggests potential involvement in membrane-associated processes. This recombinant fragment enables targeted study of the C2 domain's contributions to the protein's biological activities. |