# Recombinant CSN3 protein (His tag)

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| **Catalog Number** | 533992 |
| **Synonyms** | Signalosome subunit 3 |
| **Species** | Caenorhabditis elegans |
| **Expression System** | E. coli |
| **Accession** | Q9N425 |
| **Gene ID** | 176834 |
| **Molecular Weight** | Predictes a molecular mass of 30.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band. |

## Product Information

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| **Sequence Region** | 254-501 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, 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 254-501 aa (Q9N425) 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 COP9 signalosome complex subunit 3 (CSN-3) fragment from Caenorhabditis elegans, encompassing residues 254-501. This 248-amino acid fragment contains the complete PCI domain, making it an ideal reagent for studying domain-specific functions in ubiquitin pathway regulation and developmental processes.<br>The full-length COP9 signalosome complex subunit 3 is an essential component of the COP9 signalosome complex (CSN), which serves as a critical regulator of the ubiquitin conjugation pathway. The CSN complex mediates deneddylation of cullin subunits in SCF-type E3 ligase complexes, thereby modulating ubiquitin ligase activity. This protein plays vital roles in embryogenesis, oogenesis, and microtubule stability regulation in early embryos, and specifically targets mei-3/katanin for degradation during the meiosis to mitosis transition through cul-3 deneddylation. COP9 signalosome complex subunit 3 localizes to both the cytoplasm and nucleus, reflecting its involvement in multiple cellular compartments. |