# Recombinant CSN2 protein (His tag)

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| **Catalog Number** | 547125 |
| **Synonyms** | SGN2; Signalosome subunit 2; Alien homolog; JAB1-containing signalosome subunit 2; Thyroid receptor-interacting protein 15; TR-interacting protein 15; TRIP-15 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P61201 |
| **Molecular Weight** | Predictes a molecular mass of 53.26 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band. |

## Product Information

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| **Sequence Region** | 1-443 |
| **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 1-443 aa (P61201) 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 Human COP9 Signalosome Complex Subunit 2 (COPS2/SGN2) Fragment (aa 1-443) - A high-purity protein fragment encompassing the complete PCI domain, ideal for studying the structural and functional roles of this essential regulatory component in ubiquitin conjugation pathways and cellular signaling processes.<br>COP9 Signalosome Complex Subunit 2 (COPS2) is an essential component of the COP9 signalosome complex (CSN), a critical regulator in various cellular and developmental processes. The CSN complex plays a fundamental role in the ubiquitin conjugation pathway by mediating the deneddylation of cullin subunits in SCF-type E3 ligase complexes, thereby modulating ubiquitin ligase activity. This complex is also involved in phosphorylation events affecting key regulatory proteins including p53/TP53, c-jun/JUN, IkappaBalpha/NFKBIA, and others, potentially through its associations with CK2 and PKD kinases. COPS2 contributes to early neuronal differentiation through interactions with NIF3L1 and is localized in both cytoplasmic and nuclear compartments, reflecting its diverse functional roles in cellular regulation and signaling pathways. |