# Recombinant Human Dynactin subunit 1 (DCTN1), partial

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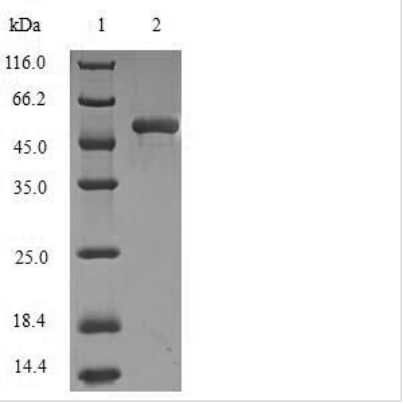
| **Product Code** | CSB-EP619866HU |
| **Relevance** | Required for the cytoplasmic dynein-driven retrograde movement of vesicles and organelles along microtubules. Dynein-dynactin interaction is a key component of the mechanism of axonal transport of vesicles and organelles. |
| **Abbreviation** | Recombinant Human DCTN1 protein, partial |
| **Storage** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| **Uniprot No.** | Q14203 |
| **Alias** | 150 kDa dynein-associated polypeptide DAP-150 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | Greater than 90% as determined by SDS-PAGE. |
| **Sequence** | PSKEEEGLRAQVRDLEEKLETLRLKRAEDKAKLKELEKHKIQLEQVQEWKSKM QEQQADLQRRLKEARKEAKEALEAKERYMEEMADTADAIEMATLDKEMAEER AESLQQEVEALKERVDELTTDLEILKAEIEEKGSDGAASSYQLKQLEEQNARLK DALVRMRDLSSSEKQEHVKLQKLMEKKNQELEVVRQQRERLQEELSQAESTI DELKEQVDAALGAEEMVEMLTDRNLNLEEKVRELRETVGDLEAMNEMNDELQ ENARETELELREQLDMAGARVREAQKRVEAAQETVADYQQTIKKYRQLTAHL QDVNRELTNQQEASVERQQQ |
| **Research Area** | Cell Biology |
| **Source** | E.coli |
| **Target Names** | DCTN1 |
| **Protein Names** | Recommended name: Dynactin subunit 1 Alternative name(s): 150 kDa dynein-associated polypeptide DAP-150 Short name= DP-150 p135 p150-glued |
| **Expression Region** | 213-547 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | N-terminal 6xHis-SUMO-tagged |
| **Mol. Weight** | 55.2kDa |
| **Protein Length** | Partial |
| **Image** | |




(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The expression region of this recombinant Human DCTN1 covers amino acids 213-547. The expected molecular weight for the DCTN1 protein is calculated to be 55.2 kDa. This DCTN1 protein is produced using e.coli expression system. Fusion of the N-terminal 6xHis-SUMO tag into the DCTN1 encoding gene fragment was conducted, allowing for easier detection and purification of the DCTN1 protein in subsequent stages.

The human dynactin subunit 1 (DCTN1) protein is a key component of the dynactin complex, crucial for intracellular cargo transport along microtubules. DCTN1 facilitates dynein motor function, contributing to retrograde axonal transport and organelle positioning. In neurobiology, DCTN1 is linked to neurodegenerative diseases, including Perry syndrome. Research on DCTN1 provides insights into molecular mechanisms governing cellular trafficking and neuronal health. Dysregulation of DCTN1 is associated with pathogenic conditions, making it a focus in neurodegenerative disorder investigations. Understanding DCTN1's functions offers potential for therapeutic strategies targeting transport-related disorders and enhances knowledge of cellular processes in neurology and related fields.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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