# Recombinant CCD54 protein (His tag)

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| **Catalog Number** | 552006 |
| **Synonyms** | Testis development protein NYD-SP17 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8NEL0 |
| **Molecular Weight** | Predictes a molecular mass of 10.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band. |

## Product Information

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| **Sequence Region** | 66-144 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 66-144 aa (Q8NEL0) 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** | This product is a high-quality recombinant protein fragment of human Coiled-coil domain-containing protein 54 (CCDC54), also known as Testis development protein NYD-SP17. The fragment (amino acids 66-144) was computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies and functional assays.<br>Coiled-coil domain-containing protein 54 (CCDC54) is encoded by the gene CCDC54 in Homo sapiens. While specific functional data and subcellular localization details for the full-length protein are not fully characterized in the provided information, proteins containing coiled-coil domains are typically involved in critical cellular processes such as structural organization, protein-protein interactions, and intracellular transport. The provided fragment represents a stable, soluble unit selected to facilitate research into the protein's biochemical properties and potential role in cellular mechanisms. |