# Recombinant DRC11 protein (His tag)

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| **Catalog Number** | 549269 |
| **Synonyms** | IQ and AAA domain-containing protein 1 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q86XH1 |
| **Molecular Weight** | Predictes a molecular mass of 40.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band. |

## Product Information

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| **Sequence Region** | 1-326 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, 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 1-326 aa (Q86XH1) 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 Dynein regulatory complex protein 11 (IQCA1) fragment (amino acids 1-326) encompassing the IQ domain, designed for targeted investigation of domain-specific functions in ciliary motility regulation.<br>Dynein regulatory complex protein 11 (IQCA1) is a component of the nexin-dynein regulatory complex (N-DRC), a critical regulator of ciliary and flagellar motility. It functions to maintain axoneme alignment and integrity while regulating microtubule sliding in motile axonemes. The protein localizes to the cytoplasm, cytoskeleton, and flagellum axoneme, playing essential roles in cellular movement and structural organization. |