Recombinant DRC8 protein (His tag)

Catalog Number	548978
Synonyms	EF-hand calcium-binding domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q5VUJ9
Molecular Weight	Predictes a molecular mass of 16.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	145-269
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 145-269 aa (Q5VUJ9) were fused with 6His tag.

Storage & Handling

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. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Dynein regulatory complex protein 8 (EFCAB2) Fragment (aa 145-269): A high-purity protein fragment encompassing the EF-hand 1 and EF-hand 2 domains, ideal for investigating calcium-binding functions and regulatory mechanisms in ciliary motility studies. Dynein regulatory complex protein 8, encoded by the EFCAB2 gene, is a component of the nexin-dynein regulatory complex (N-DRC) that plays a critical role in maintaining axonemal integrity and regulating microtubule sliding in motile cilia and flagella. This protein localizes to the flagellum axoneme, where it serves as a key coordinator of ciliary beating patterns essential for cellular motility and fluid movement. The full-length protein's function in axonemal stability and motility regulation makes it particularly significant for research into ciliopathies and cellular movement mechanisms.