Recombinant ODAD2 protein (His tag)

Catalog Number	538201
Synonyms	Armadillo repeat-containing protein 4
Species	Human
Expression System	E. coli
Accession	Q5T2S8
Molecular Weight	Predictes a molecular mass of 36.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-311
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 1-311 aa (Q5T2S8) 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 Outer Dynein Arm-Docking Complex Subunit 2 (ODAD2) Fragment (1-311) from Homo sapiens. This high-purity protein fragment is designed for structural and biochemical studies, offering a stable and soluble unit ideal for investigating ciliary dynein assembly mechanisms. Outer Dynein Arm-Docking Complex Subunit 2 (Armadillo repeat-containing protein 4), encoded by the ODAD2 gene, is a critical component of the outer dynein arm-docking complex (ODA-DC). It mediates the binding of outer dynein arms (ODA) to doublet microtubules and plays an essential role in the assembly of both ODAs and their axonemal docking complex onto ciliary microtubules. The protein localizes to the cytoplasm, specifically within the cilium axoneme and basal body, underscoring its importance in ciliary structure and function. This recombinant fragment (residues 1-311) represents a computationally selected stable region, enabling detailed analysis of its molecular interactions without the challenges of full-length protein expression.