Recombinant DAA11 protein (His tag)

Catalog Number	545347
Synonyms	DNAAF11; Leucine-rich repeat-containing protein 6; Leucine-rich testis-specific protein; Protein tilB homolog; Testis-specific leucine-rich repeat protein
Species	Human
Expression System	E. coli
Accession	Q86X45
Molecular Weight	Predictes a molecular mass of 25.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	1-199
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-199 aa (Q86X45) 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	This product is a recombinant fragment of Dynein axonemal assembly factor 11 (DNAAF11), encompassing amino acids 1-199 and fully containing the LRRCT functional domain. It is an essential tool for researchers studying dynein arm assembly, ciliary transport mechanisms, and flagellar motility, particularly in the context of sperm function and ciliopathies. DNAAF11, also known as Leucine-rich repeat-containing protein 6, is a human protein critical for the assembly of dynein arms, which are motor complexes required for ciliary and flagellar movement. It facilitates the expression and cytoplasmic transport of outer dynein arm (ODA) proteins to cilia, playing a pivotal role in spermatozoal flagella formation and motility. Subcellularly, DNAAF11 localizes to the cytoplasm, cilia, flagella, and dynein axonemal particles, underscoring its involvement in cellular projections essential for motility and signaling. This fragment, designed to include the LRRCT domain, enables targeted investigation into these specific functional aspects without the complexity of the full-length protein.