Recombinant DAA19 protein (His tag)

Catalog Number	540681
Synonyms	Coiled-coil domain-containing protein 103
Species	Human
Expression System	E. coli
Accession	Q8IW40
Molecular Weight	Predictes a molecular mass of 17.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	98-242
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 98-242 aa (Q8IW40) 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 Axonemal Assembly Factor 19 (DNAAF19) Fragment (aa 98-242) is a high-quality protein product designed for structural and functional studies. This 145-amino acid fragment, derived from the Homo sapiens DNAAF19 gene, represents a stable and soluble unit ideal for investigating cilia motility mechanisms in research applications. Dynein Axonemal Assembly Factor 19 (DNAAF19), also known as Coiled-coil domain-containing protein 103, functions as a dynein-attachment factor essential for cilia motility (ECO:0000269|PubMed:22581229). The protein localizes to the cytoplasm and is prominently found in cell projections, specifically cilia and flagella (ECO:0000250|UniProtKB:Q6DGB6). This localization underscores its critical role in the assembly and function of motile cilia, which are vital for cellular movement and signaling processes. The provided fragment (aa 98-242) was computationally selected to ensure stability and solubility, facilitating biochemical and structural analyses without the complexities of the full-length protein.