Recombinant DNAI7 protein (His tag)

Catalog Number	548990
Synonyms	Cancer susceptibility candidate gene 1 protein; Protein CASC1; Cilia and flagella associated protein 94; Lung adenoma susceptibility 1-like protein; Protein phosphatase 1 regulatory subunit 54
Species	Human
Expression System	E. coli
Accession	Q6TDU7
Molecular Weight	Predictes a molecular mass of 45.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	337-716
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 337-716 aa (Q6TDU7) 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 Intermediate Chain 7 (DNAI7) Fragment (337-716) is a high-quality protein product designed for advanced research. This 380-amino acid fragment, derived from the Homo sapiens protein also known as CASC1, is engineered for stability and solubility, making it ideal for structural studies, biochemical assays, and functional investigations into cilia regulation and cell cycle control. The full-length Dynein Axonemal Intermediate Chain 7 (DNAI7) is a multifunctional protein that associates with the axonemal dynein complex to potentially regulate cilia function. Additionally, it may serve as a cell cycle regulator, highlighting its significance in cellular processes. Subcellular localization studies indicate its presence in cell projections, specifically cilia, and the cytoplasm, where it colocalizes with microtubules during interphase. This protein's involvement in ciliary function and cell cycle regulation underscores its relevance in studies of cellular dynamics and potential disease mechanisms.