Recombinant DYLT4 protein (His tag)

Catalog Number	545133
Synonyms	Protein N22.1; Tctex-2-beta; Tctex1 domain-containing protein 4
Species	Human
Expression System	E. coli
Accession	Q5JR98
Molecular Weight	Predictes a molecular mass of 16.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	90-221
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 90-221 aa (Q5JR98) 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 Light Chain Tctex-type 4 (DYNLT4) Fragment (aa 90-221) is a highly stable and soluble protein fragment designed for structural and biochemical studies. This product enables researchers to investigate the functional domains of DYNLT4, a key component of the dynein motor complex involved in intracellular transport and ciliary function. Dynein light chain Tctex-type 4 (DYNLT4) is a human protein that localizes to multiple subcellular compartments, including cell projections such as cilia and flagella, cytoplasmic vesicles, the cytoskeleton (specifically the cilium axoneme and microtubule organizing center), cytoplasm, and nucleus. It is notably enriched in the midpiece region of flagella, suggesting a role in flagellar structure and function. While a detailed functional summary is not provided, its localization patterns imply involvement in intracellular transport, secretory processes, and potentially nuclear-cytoplasmic shuttling, making it relevant for studies on cellular motility, vesicle trafficking, and cilia-related disorders.