Recombinant DYLT2 protein (His tag)

Catalog Number	549278
Synonyms	T-complex testis-specific protein 3; T-complex-associated testis-expressed protein 3; Tcte-3; Tctex1 domain-containing protein 3
Species	Human
Expression System	E. coli
Accession	Q8IZS6
Molecular Weight	Predictes a molecular mass of 15.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	85-198
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 85-198 aa (Q8IZS6) 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 DYNLT2 (Dynein light chain Tctex-type protein 2) Fragment (residues 85-198) is a high-purity, soluble protein fragment designed for structural and biochemical studies. This 114-amino acid fragment offers a stable representation of the protein, ideal for investigating dynein-associated functions and male fertility mechanisms. Dynein light chain Tctex-type protein 2 (DYNLT2), also known as T-complex testis-specific protein 3, functions as an accessory component of both axonemal dynein and cytoplasmic dynein 1. It is implicated in male sterility and is primarily localized to the cytoplasm, cytoskeleton, cytoplasmic granules, and membrane surfaces—particularly on sperm tails. During spermatogenesis, it is stored in cytoplasmic granules, highlighting its critical role in reproductive biology and cellular transport processes.