Recombinant DYLT5 protein (His tag)

Catalog Number	550187
Synonyms	Tctex1 domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	Q8N7M0
Molecular Weight	Predictes a molecular mass of 15.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	62-179
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 62-179 aa (Q8N7M0) 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 5 (DYNLT5) fragment (residues 62-179) is a highly stable and soluble protein unit designed for structural biology and biochemical studies. This 118-amino acid fragment, derived from the Tctex1 domain-containing protein 1, offers researchers a reliable tool for investigating dynein-associated molecular mechanisms. The full-length Dynein light chain Tctex-type 5, encoded by the DYNLT5 gene (UniProt ID: Q8N7M0), is a component of the dynein motor complex involved in intracellular transport along microtubules. While specific functional details and subcellular localization information for this particular isoform are not fully characterized, dynein light chains typically contribute to cargo binding and regulatory functions in cytoplasmic dynein complexes. The selected fragment (62-179) represents a computationally optimized region predicted to maintain structural integrity and solubility, facilitating experimental applications where full-length protein expression may be challenging.